

ANNUAL REPORT

2010-11



Dhirubhai Ambani
Institute of Information and Communication Technology
Gandhinagar

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August 2010 – July 2011



Dhirubhai Ambani
Institute of Information and Communication Technology

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Shri. Dhirubhai Hirachand Ambani

(28th December, 1932 – 6th July, 2002)

Founder Chairman, Reliance Group

Founder Chairman, DA-IICT





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[For the rest of the Institute Management, please see **Annexure 1**]



DIRECTOR'S PAGE



Prof. S. C. Sahasrabudhe

The year 2010 – 2011, for which the progress report is presented in this document, has been a very productive one for us. The Institute has continued to progress steadily and decisively in all its fields of activity. Right from the beginning, our objective has been to become a valued research-cum-teaching institute in the field of information and communication technology (ICT). The level of sponsored research funding is considerably higher this year, which is also a recognition of our performance by our peers. This report will enable the reader to see and judge how far we have come.

A capable faculty that values scholarship and research, and a motivated and gifted student body, are two essential ingredients for our march towards our stated objective. The Institute has tracked these two targets painstakingly and has explored all possibilities. As we seek to establish ourselves in the academic community, we have tried to reach out to our peers all over the world for co-operation in research and education. We hope to extend this reach in the years ahead.

By making this report an open document easily available to all, we offer ourselves to closer and critical public scrutiny, and welcome comments and constructive suggestions from everyone.

Prof. S. C. Sahasrabudhe
Director, DA-IICT



ABOUT THE INSTITUTE

The Institute

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) was established in 2001, and is a UGC-recognized statutory university. DA-IICT seeks to invoke the wider vision of late Shri. Dhirubhai Ambani, the founder of The Reliance Group, and weave both knowledge and innovation as part of an evolving style. The Institute was visualized as a research-driven institute embodying the vision of India as a knowledge society. It is the only advanced institute named after the late Shri. Dhirubhai Ambani.

In addition to a unique undergraduate program, BTech (Information and Communication Technology) - the first of its kind in India, the Institute offers a variety of academic programs at postgraduate and doctoral levels. DA-IICT places great importance on having a highly qualified and research-oriented faculty. Research initiatives of DA-IICT are aimed at technological development and enhancement of interaction with leading industries and organisations in India and abroad. Continuing Education Program is also a focus area of the Institute.

The Institute has already made significant contributions to ICT in its short existence, and is consistently ranked as one of the best institutes in this field. The graduates of the Institute have been employed by the public sector, industry, Civil Society Organizations (CSOs), and academia. They are highly rated by these organisations, both technically and professionally. A significant number of graduates have started their own enterprises.





Location

Gandhinagar, the capital of Gujarat, is a modernised twin city for Ahmedabad and is fast emerging as a knowledge city. After the establishment of an information technology park (Info-City), DA-IICT was founded at Gandhinagar as the first node of an institutional concentration which would transform Gandhinagar into a knowledge city. The subsequent range of institutes, inter alia, includes campuses of the National Institute of Fashion Technology, the National Institute of Design, the Gujarat National Law University, the Pandit Deendayal Petroleum University, the Indian Institute of Technology – Gandhinagar and Central University of Gujarat.

The city constitutes a knowledge hub and an ecological corridor rendering it into a green city. The Institute can be reached in about 30 minutes from Ahmedabad Airport and Railway Station.

Campus

The architecture of DA-IICT is functional, but what surrounds it is a fascinating garden. The entire design was oriented towards preserving the environment. There are over 2500 trees, mostly belonging to indigenous varieties. The lawn area measures roughly 50,000 square meters. Over 3000 bamboos were planted to mask the concrete. Adjacent to the Resource Centre stands the herb garden with many species of rare medicinal plants. The entire landscape was planned and developed in a manner that no excess rainwater is lost and all irrigation is carried out with recycled water. The campus is a haven for bird-watchers, with many species of birds being observed.





ACADEMIC PROGRAMS

DA-IICT offers an undergraduate program (ICT) and five postgraduate programs including doctoral program leading to the award of the PhD degree. It also offers short term training programs under the Continuing Education Program (CEP). The details of the academic programs offered are given in Table 1.

Table 1: Academic Programs

Sr No.	Name of the Program	Commencement	Duration (Years)	Annual Intake
1	B. Tech. (ICT)	2001	4	240
2	M. Tech. (ICT)	2002	2	50
3	M. Sc. (Information Technology)	2002	2	90
4	M. Sc. (ICT in Agriculture and Rural Development)	2002	2	20
5	M. Des. (Communication Design)	2004	2	20
6	Ph. D.	2002	3-5	10-20

*Exclusive of foreign students

CURRICULUM REVISION

The Review Committee for the MSc (IT) program was set up in April 2011, under the chairmanship of Prof Sanjay Chaudhary. The committee will submit its report by the end of April, 2012, for approval to Academic Council. The revised curriculum will be effective from the academic year 2012-13. The Institute has initiated a review process for MDes Program as well.

ADMISSIONS

B. Tech.

The notification for admission to the 11th batch of BTech program was issued in all major national newspapers in the third week of March, 2011. The last date for receipt of applications was 6th May, 2011. 22,601 application forms were sold. Of the total 240 seats, 50% were offered in the open category and the remaining 50% of seats were offered to students from the State of Gujarat. The admission criterion remained unchanged - the merit rank in the AIEEE 2011 examination of CBSE board was used as the sole criterion for admission. The Institute follows guidelines for admission of reserved category students. The starting and closing AIEEE merit ranks of the students admitted under each category are given in the Table 2.

The eligible students in the all-India category and the State-category were invited to a counseling session on 21st and 22nd June, 2011. During counseling, students and their parents gained first-hand information about the Institute's programs, faculty, and campus facilities. Subsequent to the counseling sessions, 245 students were admitted. In addition, five students were admitted through Direct Admission of Foreign Student Channel.



Table 2: AIEEE Merit Ranks of Students

Best AIEEE Rank	All India (Gen)	5,386
	Gujarat (Gen)	3,881
Lowest AIEEE Rank	All India (Gen)	17,956
	Gujarat (Gen)	33,870

Postgraduate(PG) Programs

The admission to all PG programs, except for the MTech program, was done on the basis of merit rank in the entrance test conducted by the Institute.

For the MTech program, admission was carried out on the basis of the GATE score in the disciplines of Electronics and Communication, Computer Science and Information Technology only. Applicants having a BTech/BE degree in ICT or allied disciplines or MSc degree in Mathematics, Physics, Electronics or Statistics were eligible. For the MSc (IT) and MSc (ICTARD) programs, national level online entrance tests were conducted. For the MSc (IT), students were admitted solely on the basis of their merit rank. For MSc (ICTARD) and MDes programs, short-listed students were called for interview at DA-IICT.

The Institute successfully conducted on-line entrance tests for the two MSc programs of the Institute using facilities provided by Reliance World. The details about the entrance test dates for different graduate programs are given in Table 3..

Table 3: Entrance Test Details

Programs	Test Location	Date
M. Sc. (ICTARD)	On-line at 16 major cities in India	22 nd May 2011
M. Sc. (IT)	On-line at 14 major cities in India	22 nd May 2011
M. Des.	DA-IICT Campus, Gandhinagar	5 th July 2011
Ph. D.	DA-IICT Campus, Gandhinagar	24 th June 2011

The Table 4 shows the total intake of each program and the number of students admitted at the end of the admission process.

Table 4: Admissions Details

Program	Application Received	Candidates Selected for Admission
M.Tech. (ICT)	1079	50
M. Sc (IT)	1252	90
M. Sc. (ICT-ARD)	34	17
M. Des.	50	11
Ph. D.	99	12



Two sponsored candidates from the Space Applications Centre (SAC) of ISRO were admitted to the PhD program. These candidates were selected after a rigorous admission screening carried out at SAC, followed by an interview at the Institute.

Orientation

All new UG and PG entrants reported to campus one week before the commencement of classes for orientation. During the general orientation, the UG students were given detailed account of the curriculum, academic requirements and policies. The students were given a campus tour to familiarize them with the facilities and resources available on campus. They met instructors of the first semester courses for briefings. Similar sessions were organized program-wise for the PG students, with emphasis on the details of the curriculum and the available options with regard to elective courses. Apart from academic orientation, they were also given orientation to hostel life by student volunteers. All new entrants were exposed to various aspects of engineering with emphasis on ICT.

FINANCIAL SUPPORT

The Institute provides financial support in the form of scholarships and assistantships to eligible students, the details of which are given below.

Scholarships

The Institute offers Merit Scholarship and Merit-Cum-Means Scholarships for BTech (ICT) students. In each category, up to five students are awarded scholarships at the beginning of every academic year. The scholarship amount covers full tuition fees of ₹30,000 per semester for the entire duration of the program. Merit Scholarship is awarded to all the students having AIEEE – all India rank up to 5000. The Merit-cum-Means Scholarship is awarded to students on the basis of the AIEEE – all-India rank and whose parent(s)/guardian (s) annual income is up to ₹2,50,000. Two Merit Scholarships and Five Merit-Cum-Means Scholarships have been awarded for the batch admitted in 2011.

Assistantships

The Institute offers full-time and half-time teaching assistantships to students of the MTech (ICT) and PhD programs; half-time teaching assistantships are offered to BTech (ICT) students in their final year only.

THESES

PhD Theses

PhD is one of the most important programs of DA-IICT and the Institute is attracting a good number of applicants every year. Four students submitted their thesis during the academic year. The list of PhD theses submitted to the institute is given in the **Annexure 2**.

Master's Theses

Research work of students of MTech (ICT) program starts from summer semester after their second semester. They work extensively to generate interesting research outcome under the guidance of the Institute's faculty members. Students of MSc (ICTARD) and MDes programs work full time



on projects during their fourth semester at DA-IICT or at leading organizations. The list of theses/ projects completed by the students of MTech, MSc (ICTARD) and MDes programs during the year is given in the **Annexure 2**.

INSTITUTIONAL COLLABORATION AND STUDENT EXCHANGE PROGRAMS

DA-IICT welcomes students from other institutions to carry out internships or project work under the guidance of our faculty. Most of the trainees arrive during the summer semester when it is usually possible to provide hostel facilities as well as use of the laboratories and Resource Centre.

In January 2011, a cooperative endeavor called the Network of Engineering Institutions (NEI) was initiated by Prof. D. Nagchoudhuri of DA-IICT. NEI's objective is to enhance the quality of PhD research among the participating Institutions with the help of experts from various IITs. Interactive Forum for exchange of views and ideas has been formed and workshops are conducted and evaluated by experts. Currently the focus is on VLSI related research and NEI is getting help of experts from IIT, Bombay and Delhi. At present, DA-IICT, Mody Institute of Technology & Science, LNM Institute of Information Technology and Yeshwantrao Chavan College of Engineering are the member institutions of NEI and shortly it will be extended to other institutions with other focus areas. This initiative would also enable the sharing of research resources and provide mentorship to students and their local PhD guides.

During the autumn semester 2011-12, DA-IICT and IIT, Gandhinagar, initiated a process to jointly offer courses on electronics and communication, mathematics, sciences and humanities.

CONTINUING EDUCATION PROGRAMS (CEP)

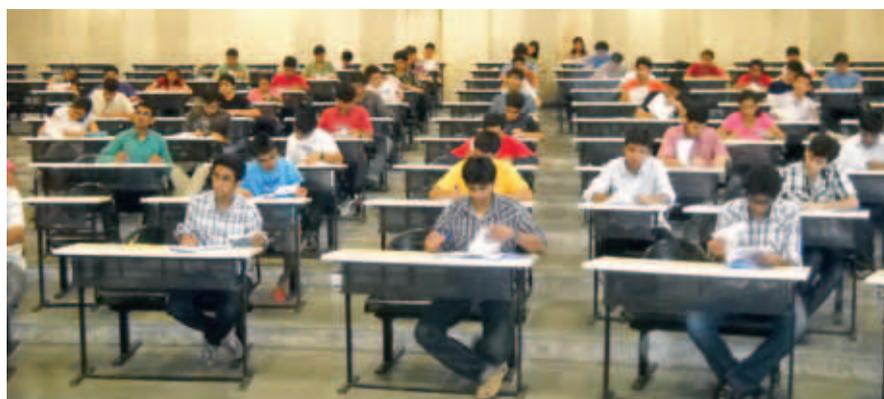
CEP has been an integral part from the early stage of DA-IICT. It provides high-end training programs in ICT for the benefit of professionals in various fields on a regular basis. It became an independent unit of the Institute in 2005. Thus far, about 90 courses have been conducted. Many courses have been conducted for the Indian Air Force, training over 1800 IAF personnel to date. The details of CEP offered are presented in Table 5





Table 5: Details of CEP Offered

Sr No	Title of the Program	No of Candidates	Duration (Weeks)
1	AFNET	16	2
2	Basics of Internet Operation with E-Commerce	19	2
3	IT Security	16	3
4	Hardware repair, Networking and Network maintenance	25	3
5	Windows 2003 server, RHEL, System Administration and IT Security	15	4
6	Basics of Internet Operation with E-Commerce	16	2
7	Basics of Internet Operation with E-Commerce	17	2
8	Java J2EE and Jboss	15	4
9	MS Office 2007	15	1
10	AF Net	30	2
11	MS Outlook and HTML	12	2
12	ORACLE 10G AND DBA ON LINUX	15	4
13	Microsoft .NET	15	4
14	ARC GIS	15	4
15	Networking	15	2
Total Number of Participants in 2010-11		256	





PLACEMENTS AND INTERNSHIPS

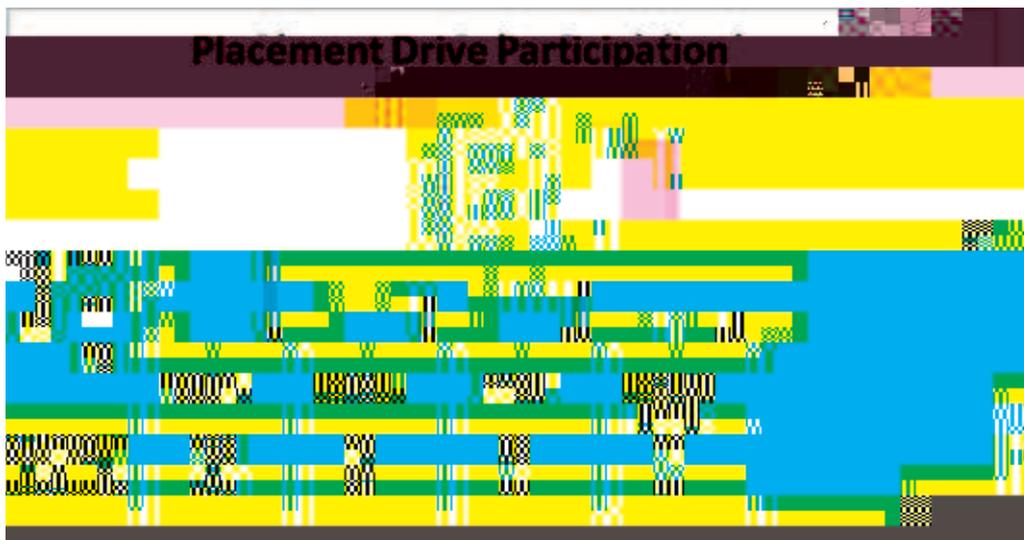
PLACEMENTS

Seven batches of students have passed out of DA-IICT and joined industry. Owing to the increasing brand value of the Institute, many well-known companies visited the campus this year.

DA-IICT witnessed 97% placement during 2010-11. Notwithstanding the after effects of the global recession, 64 companies - both Indian and MNCs - offered jobs to eligible and interested students. During the reporting period, 308 students participated in the campus placement (Figure 1). 425 offers were made and 297 students were placed with pay package varying between ₹3.00 Lakhs and ₹8.50 Lakhs per annum. Program-wise break-up of offers made is given in Figure 2. The average salary was ₹3.98 Lakhs per annum compared to ₹3.61 in 2009-10. Among the placed students, 103 had multiple job offers.

Companies that visited the campus include: Accenture, Airvana, Anindus Consultancy, Belzabar, Bharati Airtel, Bit Mapper Integration Technologies, Integration, Capillary, Deloitte Consultancy, Digital Green, Directi, Dolcera, Evosys, Fiserv, Futures First, Gujarat State Watershed Management Agency (CRD), HP, Indigo Architects, Infinium Solutionz, Infosys, JK Seeds, J P Morgan Chase, Kothari Infotech, Kuliza, Maxim Integrated Design Circuit, Mediashala, MindTree, Mu-Sigma, National Instruments, Next Leap, Open Silicon, OpsHub, Patni, Persistent, Pramati, Progress Software, Qualcomm, Reliance Power, Robosoft, Saba Softwares, Sankalp Semiconductors, Sapient, Sapient Nitro, Stoke, TCS, Tata Rallis, Tata Technology, Tatvik, VerSe Innovations, Wipro, and ZS Associates.

Figure 1: Program-wise Student Participation in Placement



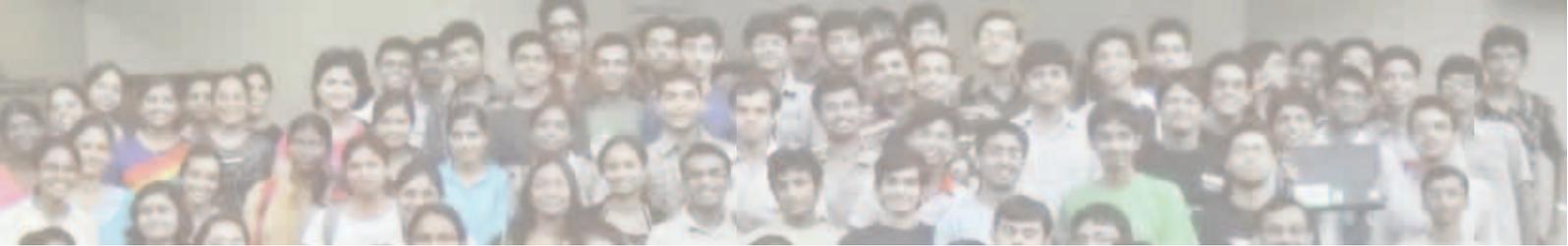


Figure 2: Program-wise Break-Up of Offers and Students Placement



INTERNSHIPS

At the end of the 6th semester, undergraduate BTech students are required to undertake a Research or Industrial Internship for 6 to 8 weeks during the summer vacation. In Research Internship, the students are required to work with a guide in an academic institution or a research and development unit of an industry. The purpose is to expose the student to a research environment under the supervision of an expert in an ongoing work. The Industrial Internship exposes the students to the working environment in industry with an expectation that this exposure would equip the students to make a better choice about their career after graduation. Students develop skills and techniques directly applicable to their careers and hone skills in the application of theory to practical work situations.

Rural Internship

The four-week Rural Internship is the sequentially first of the three Internships, which the students of the B Tech program have to undertake following the Third Semester. It is undertaken in affiliation with an organization such as an NGO, Community-based Organization, Panchayat Raj Institution, Social Enterprise, a village school, or a charity organization located in a village with a population under 10,000. All the students of the BTech batch undertook the Rural Internship in December 2010 and completed it successfully. Around 40 per cent of the students had chosen rural organizations in Gujarat and Rajasthan and the remaining in Gujarat, Rajasthan, Uttara Khand, UP, MP, Chhattisgarh, Bihar and AP. Each Organization had assigned a student-specific project enabling them gain a firsthand experience of village-life and social patterns - mostly in the area of primary education, health-care, ecology, governance and citizen's rights. The Internships emphasized in helping village schools and healthcare delivery. The reports submitted to host organizations provide



ample testimony to the good conduct of students during their internship period, while the diaries of day-to-day work maintained by the students provide a heartening picture of the DA-IICT community acquitting itself of the social responsibility. Apart from adding value to their education, the Rural Interns contributed significantly to the efforts of the Civil Society organizations towards India's rural re-construction.

Research Internship

During 2010-2011, 149 students chose to do research internships - 17 of these students worked at an external location, while the rest worked with DA-IICT faculty. The external institutions include Carnegie Mellon University USA (8), National Institute of Design Gandhinagar (1), Centre for Environment Education Ahmedabad (1), Tata Memorial Centre Mumbai (1), Arkansas State University USA (1), ISRO-Space Applications Centre Ahmedabad (1), IIT Bombay (2), DRDO Jodhpur (1). Students worked on a large variety of projects.

Industrial Internship

47 students were enrolled in Industrial Internship program in Summer 2011. The students spent on an average 8 weeks on company premises, learning to work in a corporate environment. Students joined multinational organizations like Microsoft (4), Google (2), Samsung, HP, Wipro, Mozilla and Symbiosis. Others chose to join large Indian corporations like ONGC, HMT and Doordarshan.





SEVENTH CONVOCATION

The Seventh Convocation of DA-IICT was held on 22nd January, 2011. Dr. Jayant V. Narlikar, an eminent astrophysicist and Professor Emeritus at the Inter-University Centre for Astronomy and Astrophysics, Pune and also a leading expert and defender of the steady- state cosmology was the chief-guest. Shri Dharmendra Bhandari, Member, Board of Governors, presided over the convocation. In all, 307 students received their degrees during the convocation. PhD degree was awarded to 2 students (Guntuku Dileep Kumar and Bombale Uttam Laxmanrao), MTech (ICT) degree to 35 students, MSc (IT) degree to 54 students, MSc (ICTARD) degree to 12 students and BTech (ICT) degree to 204 students.

The following students were awarded the President's Gold Medal attaining the highest CPI in their respective programs:

MSc (IT) 2008	Thakkar, Heta Bharat Kumar
MSc (ICTARD) 2008	K. Binoy
BTech (ICT) 2006	Nagar, Kartik Navinbhai

In his address to the students and faculty, Dr. Jayant Narlikar shared some of his concerns about the quality and excellence in higher education. Over time, Indian education system has witnessed a sweeping change from a value-based to materialistic education. Using anecdotes from ancient Indian scriptures, he illustrated the erosion of values in education systems from antiquity to modernity. Today, education has become a mere business. In early times of 'Gurukul', more importance was given to moral and ethical values than to materialistic book knowledge. Education was free and at the end of the learning process, the students gave 'guru dakshina' to the 'guru' as a token of gratitude. Scholars were respected everywhere irrespective of their age, gender or social status. The 'Gurukuls' took a back seat with the advancement of education. Today's colleges and universities end up giving materialistic modern education.

Dr. Narlikar stated that today, knowledge and learning seem to take a back seat to money and power. Today there is a general lack of learned scholars who command social respect, who derive pleasure from the art of teaching, and who prefer to work on their research problems rather than exercise bureaucratic authority. He felt that only a handful of places of learning today have the kind of ambience that would promote knowledge and learning.

However, Dr. Narlikar contends that one can still aspire to those ideals from earlier times, We can learn from the examples of centres of excellence of today. He concluded by advising the graduates to learn to appreciate excellence wherever it is seen; if they strive for excellence regardless of the field of pursuit, they will not go wrong. There will always be others who will appreciate their efforts.



B.Tech 2006 batch students with faculty



P G students with faculty



Students receiving gold medals from the Chief Guest Prof. Jayant Narlikar



RESEARCH AND DEVELOPMENT

A proper interweaving of teaching with research is vital for imparting quality education. The Institute started its two research-oriented postgraduate programs, MTech and PhD, within a year of its founding in 2001. The research work being carried out spans several academic disciplines, including but not limited to the following: computer science, electronics and communication, mathematics, physics, rural development, humanities, and social sciences.

The research and development activities are supported by a full range of infrastructure facilities, such as well-equipped laboratories, specialized equipment, campus-wide networking, and high-speed internet access, and subscription to hundreds of print and online journals. An important aim of the activities is to stimulate and enhance the research ability and potential of students who wish to turn their technical inventiveness into successful businesses. With this in mind, the Centre for Entrepreneurship and Incubation at DA-IICT (CEID) was established in September 2007 to support students who wish to venture out with their own technology-based start-ups. Based on certain basic qualifying criteria, nascent technology ventures of students are provided with crucial infrastructure support, mentoring and guidance.

Besides teaching, faculty members regularly publish their research work in peer-reviewed conferences and journals. The Institute has been receiving substantial grants for externally sponsored projects, some of which have linkages with reputed foreign universities.

New Sponsored Projects

In the year 2010-11 the Institute received grants for five new sponsored projects. The two major grants received during this year are a grant of ₹71.00 lakh for 3 years from DIT for language technologies research, and a grant of ₹53.00 lakh for 3 years from DST for digital heritage research. These grants have been awarded as part of two networked projects being implemented by consortia of prominent national institutes, one led by IIT, Bombay, and another by NIAS, Bangalore.

Table 6: New Sponsored Projects

Agency	Title	Duration	Faculty
DIT	Development of Cross Lingual Information (CLIA) System Phase-II	2011-14 (3 Years)	Prasenjit Majumder Suman Mitra
DST	Indian Digital Heritage (IDH-Hampi) Phase-II (Digital Capture of Culture and Heritage)	2011-14 (3 Years)	Manjunath Joshi Hemant Patil
DST	Service-oriented Architecture for Spatial Data Integration and Spatial Reasoning	2011-14 (3 Years)	Sanjay Chaudhary Minal Bhise
DST	Distortion and Accuracy Improvement in Sample and Hold Circuits for Analog-Digital Converters	2011-13 (2 Years)	Subhajit Sen Chetan Parikh Dipankar Nagchoudhuri
National Innovation Foundation	Value Addition in Grassroots Technologies	2011-12 (1 Year)	Anil Roy Rahul Dubey



Ongoing Sponsored Projects

The faculty continued the work on nine ongoing sponsored projects. Four of these have collaborative linkages with researchers from universities in France, Spain, UK and Japan.

Table 7: Ongoing Sponsored Projects

Agency	Title	Faculty
Board for Research in Fusion Technologies (BRFST)	Sensor Network Test-Bed For Tokamak Environment	Prabhat Ranjan Rahul Dubey
Board for Research in Nuclear Sciences (BRNS)	Securing Biometric Data Using Data Hiding Techniques	Mehul Raval
DST (Indo-Japan)	Security Proofs and Multidisciplinary Evaluation for Dynamic Key Assignment Schemes	Anish Mathuria Manik Lal Das
Department of Science and Technology (DST) and Science and Engineering Research Council (SERC)	Wireless Telemedicine using Body Area Sensor Networks and Heterogeneous Access Networks	Laxminarayana Pillutla
DST (Indo-Spain)	Security and Privacy Infrastructure for Internet of Things – Scenarios and Applications	Manik Lal Das Anish Mathuria
Economic and Social Research Council (ESRC)	Integrated Histories of Andaman Islands	Vishvajit Pandya Madhumita Mazumdar
Indo-French Centre for the Promotion of Advanced Research (IFCPAR)	Robust Ultra-Low-Power Double-Gate MOSFET Design of Analog, Digital and SRAM Memory Circuits	Chetan Parikh Dipankar Nagchoudhuri
National Trust, Ministry of Social Justice and Empowerment, Govt. of India	Finger/Wrist mounted Universal Remote Control for CP Patient	Prabhat Ranjan
Physical Research Laboratory (PRL)	Earth Model for Wireless Sensor Nodes for Detection of Water on Moon / Water sensing systems based on Tuned Diode Laser for Planetary Mission	Prabhat Ranjan





Completed Sponsored Projects

Following one project was completed during the year.

Table 8: Completed Sponsored Projects

Agency	Title	Duration	Faculty
ISRO	Analysis of Radiation from Multidevice High Gain Amplifier and Interaction of Active MMIC with Package/Housing – Theory, Analysis and Measurement	2009-11 (2 Years)	Deepak Ghodgaonkar Sanjeev Gupta

Incubation Centre

An MoU was signed between CEID and the Centre for Innovation, Incubation and Entrepreneurship (CIIE) located at IIM-Ahmedabad. To stimulate the entrepreneurship culture within the DA-IICT student community, an open elective course entitled Basics of Entrepreneurship is being introduced in the Autumn 2011-12 semester.

Consultancy Projects

Faculty/staff provided consulting services to four organizations in their areas of expertise.

Table 9: Consultancy Projects

Organization	Title	Faculty
Marwadi Education Foundation	Electronics resource room for hands on experimentation	Rahul Dubey
Uplift India Association	Model and practices for health micro insurance	Alka Parikh
Adani Institute of Infrastructure Management	Renewable energy applications	Girja Sharan
IIT-Gandhinagar	Library system and processes	T. S. Kumbar

International Project Visits

As part of government-funded bilateral-sponsored projects, faculty and staff visited international sponsored project partners in France, Spain and Japan. Researchers from the foreign partner institutions also visited DA-IICT.

Indo-French Project

Prof. Chetan Parikh visited Institut Supérieur d'Electronique de Paris (ISEP), France, from 15th – 29th May, 2011.



Prof. Amara Amara of ISEP, France, visited DA-IICT from 15th – 30th December, 2010. He gave two presentations during his visit, one on Low Power Circuit Design Techniques and another on Ultra-Thin Body and Box Fully Depleted Silicon-on-Insulator Transistors.

Indo-Japan Project

Dr. Takahiro Matsuda of University of Tokyo, Japan, visited DA-IICT from 12th February – 1st March, 2011.

Prof. Kanta Matsuura of University of Tokyo, Japan, visited DA-IICT from 19th -22nd February, 2011.

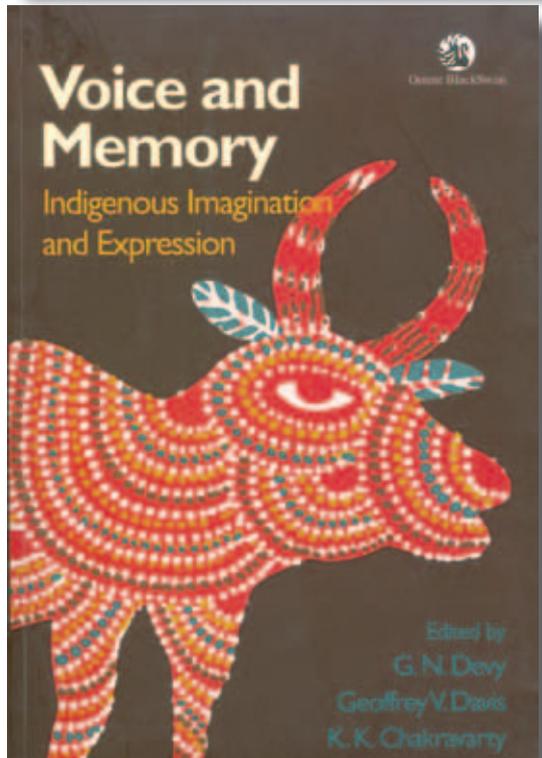
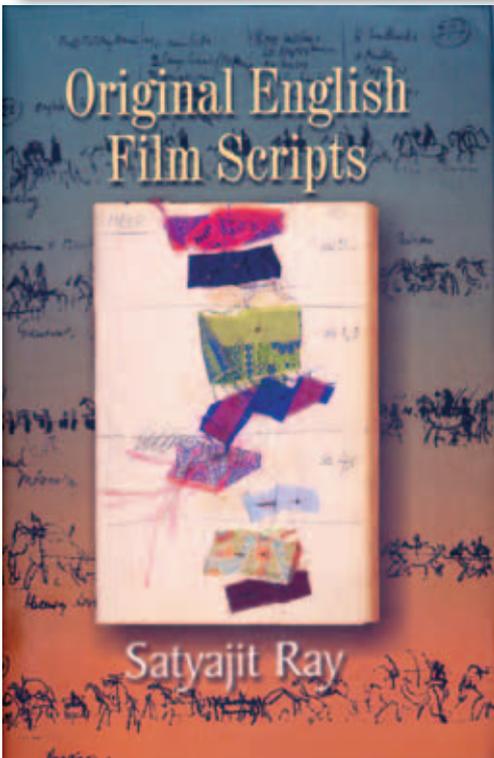
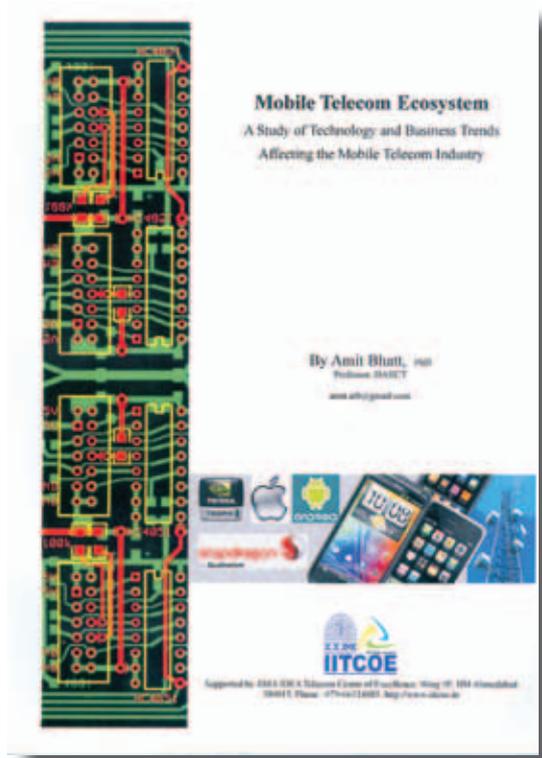
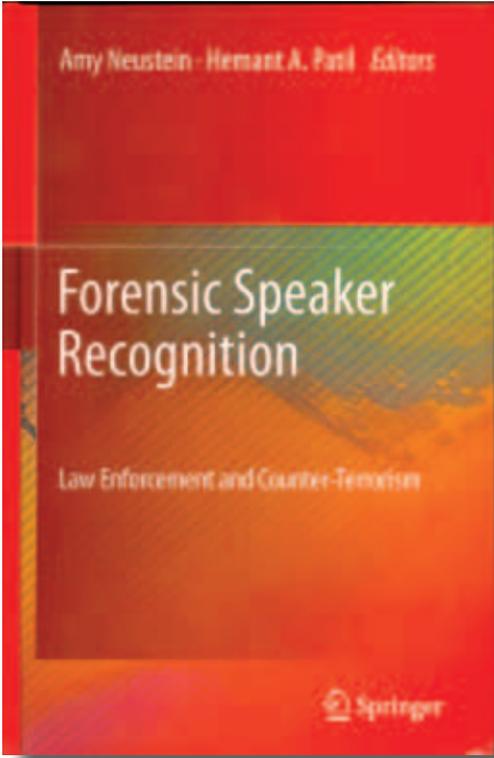
A Half-Day Workshop on Information Security between University of Tokyo and DA-IICT was held on 21st February, 2011. There were 10 student speakers (seven BTech two MTech one PhD) from DA-IICT and one speaker from University of Tokyo.

Indo-Spain Project

Ms. Sarita Agrawal (Senior Research Fellow) visited University of Malaga, Spain, from 15th January to 14th February, 2011. She gave a presentation on Establishing Pair-wise Keys in Wireless Sensor Networks.

Dr. Rodrigo Roman of University of Malaga, Spain visited DA-IICT from 1st – 16th September, 2010. He gave a presentation on Wireless Sensor Networks and the Internet of Things.





Faculty authored books



PUBLICATIONS

Publications reflect faculty and staff interests and their research initiatives. A majority of the publications have student co-authors, indicating a strong faculty commitment to train and mentor both postgraduate and undergraduate students in research. The publications listed here are those that appeared in peer-reviewed journals and conferences.

In 2010-2011, the faculty and staff published four books, nine chapters in books, and sixty four papers in journals and conferences and a report. In addition, over thirty four articles of general interest and three reviews were published in newspapers and magazines (which are not listed here). Students published eight papers of their own, or with outside collaborators. (In the list below, faculty member and staff names are listed in bold letters, and students are listed in italics).

Edited and Translated Books

1. **Devy, G. N.**; Davis, Geoffrey V. and Chakravarty, K. K. (Eds.). *Voice and Memory: Indigenous Imagination and Expression*, New Delhi: Orient BlackSwan, 2011. ISBN: 9788125042228.
2. **Devy, G. N.**, (Ed.). *S. K. Desai Essays: A Novelist's Response to Literature*, Pune: Padmagandha Prakashan, 2011. ISBN: 9788186177785.
3. Neustein, Amy and **Patil, Hemant A.** (Eds.). *Forensic Speaker Recognition: Law Enforcements and Counter-Terrorism*, New York: Springer, 2011. ISBN: 9781461402626.
4. Ray, Sandip and **Sarkar, Aditi Nath** (Eds.). *Satyajit Ray: Original English Film Scripts*, New Delhi: Chronicle Books, 2011. ISBN: 9788180280016.

Book Chapters

1. **Chaudhary, Sanjay** "Preface", in *Semantic Services, Interoperability and Web Applications: Emerging Concepts*, Amit Sheth Ed. Hershey: IGI Global, 2011, ISBN: 9781609605940.
2. Buch, Kaushal; **Dubey, Rahul** and Buch, Saket. „Low power techniques for greener hardware,“ in *Handbook of Research on Green ICT: Technology, Business and Social Perspectives*, Bhuvan Unhelkar Ed. Hershey: Information Science Reference, 2011, pp. 513-522. ISBN: 9781616928346.
3. **Raval, Mehul S.** "Data hiding in digitized medical images: from concepts to applications," in *Digital Forensics for the Health Sciences: Applications in Practice*, Andriani Daskalaki Ed. Hershey: IGI Global, 2011, pp. 29-47. ISBN: 9781609604837.
4. **Raval, Mehul S.** "Blind steganalysis using machine intelligence," in *Computational Techniques and Algorithms for Image Processing*, S. Ramakrishnan and Ibrahim M. M. El Emary Ed. Saarbrücken: Lambert Academic Publishing (LAP), 2010, pp. 505 – 534. ISBN: 9783843358026.
5. **Suhrud, Tridip** "Gandhi's Key writings: in search of unity," in *The Cambridge Companion to Gandhi*, Judith M. Brown and Anthony Parel Eds. Cambridge: Cambridge University Press, 2011, pp. 71-92. ISBN: 9780521133456.
6. **Visvanathan, Shiv** *Foreword: "Overture to a study of emotions"*, in *States of Sentiment: Exploring the Cultures of Emotion*, Pramod K. Nayar Ed. New Delhi: Orient BlackSwan, 2011. ISBN: 9788125041993.

7. **Visvanathan, Shiv** "Scripting Sociology of science: Between knowledge and democracy in India", in *Doing sociology in India: Genealogies, locations and practices*, Sujata Patel Ed., New Delhi: Oxford University Press, 2011, pp. 290-313. ISBN: 9780198070115.
8. **Visvanathan, Shiv** "Chandra: re-inventing an uncle," in *S. Chandrasekhar: man of science*, Radhika Ramnath Ed. New Delhi: Harper Collins Publishers, 2011, pp. 138 - 146. ISBN: 9789350290293.
9. Hammerstrom, Dan and **Zaveri, Mazad S.** "CMOL/CMOS implementations of bayesian inference engine: Digital and mixed-signal architectures and performance/price - a hardware design space exploration," in *CMOS Processors and Memories*, Krzysztof Iniewski Ed. Berlin: Springer, 2010, pp. 97-138. ISBN: 9789048192151.

Journal Papers

1. Soni, Akshay; Sharma, Tanvi and **Chakka, Vijaykumar** "Inverse QR 2D-RLS adaptive channel estimation for OFDM systems," *IEICE Transactions on Communications*, vol. E93-B, no. 10, pp. 2822-2825, October 2010. ISSN: 0090-6778.
2. **Chatterji, Samaresh** and *Gandhi, Ratnik*. "Computing equilibria with group actions," *ACM Communications in Computer Algebra*, vol. 45, no. 1/2, pp. 115 - 116, March/June 2011. ISSN: 1932-2240.
3. Dileepkumar, Guntaku; Holz-Clause, M.; Aruna Sai, K.; **Chaudhary, Sanjay** and Balaji, V. "A theoretical framework for rural knowledge centers", *US-China Education Review*. vol. 8, no. 12, 2011. ISSN: 1548-6613.
4. *Nathani, Amit*; **Chaudhary, Sanjay** and *Somani, Gaurav* "Policy based resource allocation in IaaS cloud", *Future Generation Computer Systems*, vol. 28, no. 1, pp. 94-103, January 2012. DOI: <http://dx.doi.org/10.1016/j.future.2011.05.016>, Published online 12th June, 2011. ISSN: 0167-739X
5. **Chaudhary, Sanjay** "August: Osage County", *Shabda Shruti*, no. 329, pp. 76-79, January 2011.
6. **Das, Manik Lal**. "A key escrow-free identity-based signature scheme without using secure channel," *Cryptologia*, vol. 35, no. 1, pp. 58-72, January 2011. ISSN:0161-1194.
7. Patel, Hetal N.; Jain, R. K. and **Joshi, M. V.** "Fruit detection using improved multiple features based algorithm," *International Journal of Computer Applications (IJCA)*, vol. 13, no. 2, pp. 1 - 5, 12th January, 2011. ISSN: 0975-8887.
8. **Divakaran, Srikrishnan** and Saks, Michael. "An online algorithm for a problem in scheduling with set-ups and release times" in *Algorithmica*, vol. 60, no. 2, pp. 301-315, June 2011. ISSN: 1432-0541.
9. **Majumder, Prasenjit**; Mitra, Mandar; Pal, Dipasree; Bandyopadhyay, Ayan; Maiti, Samaresh; Pal, Sukomal; Modak, Deboshree; Sanyal, Sucharita "The FIRE 2008 Evaluation Exercise," *ACM Transactions on Asian Language Information Processing (TALIP)*, vol. 09, no. 03, Article no. 10, pp. 10.1 – 10.24, September 2010. ISSN: 1530-0226.
10. Harman, Donna; Kando, Noriko; **Majumder, Prasenjit**; Mitra, Mandar and Peters, Carol "Introduction to the special Issue on Indian language information retrieval part I," *ACM*

Transactions on Asian Language Information Processing (TALIP), vol. 09, no. 03, Article No.: 9, pp. 9.1 – 9.3, September 2010. ISSN: 1530-0226.

11. **Parmar, Ghanshyam** and **Mitra, Suman K.** "Effective analysis of fuzzy unsupervised clustering algorithms for brain tissue segmentation in single channel MR image", *International Journal of Bio-Science and Bio-Technology*, vol. 3, no. 2, pp. 39-48, June 2011. ISSN: 2233-7849.
12. **Roy, Anil K.; Mitra, Suman K.** and Agrawal, Rohin. "A novel method for detecting light source for digital image forensic", *Opto-Electronics Review*, vol. 19, no. 2, pp. 211-218, June 2011. ISSN: 1572-834X.
13. **Sen, Subhajit.** "Analysis of tracking distortion in bootstrapped gate MOSFET sample-hold circuits and a method for its minimization," *IETE Journal of Research*, vol. 57, no. 1, pp. 29-38, January – February 2011. ISSN: 1896-3757.
14. **Sharan, Girja;** Kishor P. Rawale and Bhawna S. Shirsat. "Quality-oriented fresh vegetable supply chain: a pilot in Ahmedabad, India," in *Food Chain*, vol. 1, no. 1, pp. 95-105, May 2011. ISSN: 0377-2063.
15. **Sharan, Girja;** Clus, O.; Singha, S.; Muselli, M. and Beysens, D. "A very large dew and rain ridge collector in the Kutch area (Gujarat, India)," *Journal of Hydrology*, vol. 405, no. 1-2, pp. 171-181, 21st July, 2011. ISSN: 0022-1694.
16. **Sharan, Girja.** "Harvesting dew with radiation cooled condensers to supplement drinking water supply in semi-arid coastal northwest India," *International Journal for Service Learning in Engineering*, vol. 06, no. 01, pp. 132-152, Spring, 2011. ISSN: 0022-1694.
17. **Suhrud, Tridip.** "The Lelyveld book," *Economic and Political Weekly*, vol. 46, no. 15, p. 9, 2nd April, 2011. ISSN: 1555-9033.
18. **Suhrud, Tridip.** "Gandhi's absence," *India International Centre (IIC) Quarterly*, vol. 37, no. 2, pp. 16-25, Autumn, 2010. ISSN: 0376-9771.
19. **Tatu, Aditya;** Lauze, François; Sommer Stefan and Nielsen Mads. "On restricting planar curve evolution to finite dimensional implicit subspaces with non-Euclidean metric", *Journal of Mathematical Imaging and Vision*, vol. 38, no. 3, pp. 226-240, November 2010. ISSN: 1573-7683.
20. Chouduma, S. A.; Lavanyaa, S.; **Sunitha, V.** "Embedding double starlike trees into hypercubes," *International Journal of Computer Mathematics*, vol. 88, no. 1, pp. 1-5, January 2011. ISSN: 1029-0265.
21. Poornachand and **Venkataraman, Hrishikesh.** "CASHeW - cluster-based Adaptive Scheme for Multimedia Delivery in Heterogeneous Wireless Networks," *Wireless Personal Communications*, DOI: 10.1007/s11277-010-0067-8, August, 2010. ISSN: 1572-834X.
22. **Venkataraman, Hrishikesh** and Muntean, Gabriel-Miro. "Dynamic time slot partitioning for multimedia transmission in two-hop cellular networks", *IEEE Transactions on Mobile Computing*, vol. 10, no. 4, pp. 532-543, September 2010. ISSN: 1536-1233.
23. **Visvanathan, Shiv.** "Reading Gandhi with lelyveld," *Seminar*, no. 621, pp. 68-70, May 2011. ISSN: 0971-6742.
24. **Visvanathan, Shiv.** "The Carnival of the republic," *Seminar*, no. 618, pp. 55-60, February 2011. ISSN: 0971-6742.

25. **Visvanathan, Shiv.** "Bt. Brinjal goes politicking: reflections on a moratorium," *Seminar*, no. 614, pp. 64-74, October 2010. ISSN: 0971-6742.
26. **Visvanathan, Shiv.** "Obituary for a new manifesto," *Seminar*, no. 612, pp. 70-71, August 2010. ISSN: 0971-6742.
27. **Zaveri, Mazad S.** and Hammerstrom, Dan. "Performance/price estimates for cortex-scale hardware: a design space exploration," *Neural Networks*, vol. 24, no. 3, pp. 291-304, April 2011. ISSN: 0893-6080.
28. **Tiwari, Mukesh;** Seletskiy, D. V. and Kenkre V. M. "Resonance effects in the nonadiabatic nonlinear quantum dimmer", *The European Physical Journal B (EPJB)*, vol. 81, no. 2, pp. 147-153, May 2011. ISSN: 1434-6036.

Conference and Workshop Papers

1. Joy, Arun and **Chakka, Vijaykumar.** "An affine projection algorithm based transceiver filter for MIMO two-way relaying scheme," in *Proceedings of International Conference on Wireless Communications, Vehicular Technology, Information Theory and Aerospace and Electronic Systems Technology (Wireless VITAE)*, Chennai, IN, Feb. 28 – 2nd Mar, 2011, pp. 1-4.
2. Joy, Arun and **Chakka, Vijaykumar.** "Performance comparison of LMS/NLMS based transceiver filters for MIMO two-way relaying scheme," in *Proceedings of International Conference on Communications and Signal Processing (ICCSP)*, Calicut, IN, 10th – 12th February, 2011, pp. 105 - 107.
3. Joy, Arun and **Chakka, Vijaykumar.** "An IQR-RLS based transceiver filter for MIMO two-way relaying in frequency selective environment," in *Proceedings of 2nd UK-India-IDRC International Workshop on Cognitive Wireless Systems (UKIWCWS)*, New Delhi, IN, 13th – 14th December, 2010, pp. 1-5.
4. Patel, Mehul; **Chaudhary, Sanjay** and **Bhise, Minal.** "Agro produce marketing using social network", in *Proceedings of First International Workshop on Social Media Engagement (SoME) co-located with 20th International World Wide Web Conference (WWW)*, Hyderabad, IN, 28th March – 1st April, 2011.
5. **Akhani, Janki;** **Chaudhary, Sanjay** and Somani, Gaurav. "Negotiation for resource allocation in IaaS cloud," in *Proceedings of the Fourth Annual Conference of ACM Bangalore Chapter (COMPUTE)*, Bangalore, (Article no. 15), IN, 25th – 26th March, 2011.
6. **Bhatt, Shreyansh;** **Chaudhary, Sanjay** and **Bhise, Minal** "An approach to migration of database from one cloud to other clouds", in *Proceedings of Workshop on Issues in Virtualization/Cloud Systems wCloud*, IIT Mumbai, IN, 26th February, 2011.
7. **Guntuku, Dileepkumar;** Aruna Sai, K.; **Chaudhary, Sanjay** and Balaji, V. "Towards a framework for planning and designing of rural knowledge centres", in *Proceedings of Sixth Pan-Commonwealth Forum (PCF6)*, Kochi, IN, 24th – 28th November, 2010.
8. **Somani, Gaurav** and **Chaudhary, Sanjay,** "Load balancing in xen virtual machine monitor", in *Proceedings of Third International Conference on Contemporary Computing (IC3)*, (Communications in Computer and Information Science, vol. 95, Springer-Verlag), Noida, IN, 9th – 11th August, 2010, pp. 62-70.
9. **Somani, Gaurav** and **Chaudhary, Sanjay.** "Performance isolation and scheduler behavior", in *Proceedings of 1st International Conference on Parallel, Distributed and Grid Computing (PDGC)* Wagnaghat, Solan, Himachal Pradesh, IN, 28th -30th October, 2010, pp. 272 - 277.

10. Dhoot, Vivek and **Sanjeev Gupta**. "Design of cantor antenna using FDTD", in *Proceedings of 13th International Conference on Advanced Communication Technology (ICACT)*, Phoenix Park, Gangwon-Do, Korea, 13th – 16th February, 2011, pp. 272-275.
11. Dhoot, Vivek and **Gupta, Sanjeev**. "Return loss validation of a novel cantor based antenna using FIT and FDTD," in *Proceedings of International Conference on Communications and Signal Processing (ICCSP)*, Calicut, IN, 10th – 12th February, 2011, pp. 374-378.
12. Dhoot, Vivek and **Gupta, Sanjeev**. "Full wave analysis of a novel multifractal multiband antenna using 3D-FDTD approach," in *Proceedings of International Conference on Communications and Signal Processing (ICCSP)*, Calicut, IN, 10th – 12th February, 2011, pp. 261-265.
13. Sarvaiya, Ashish K.; **Gupta, Sanjeev** and **Ghodgaonkar, Deepak**. "A full wave analysis of antenna using 3D FDTD with CPML and near to far field transformation algorithm," in *Proceedings of 4th Annual Conference of the Antenna Test and Measurement Society India (ATMS India)*, Ahmedabad, IN, 9th – 11th February, 2011, pp. 33-37.
14. Shah, Milind S. and **Gupta, Sanjeev**. "Multi-band antenna designs for satellite applications," in *Proceedings of 4th Annual Conference of the Antenna Test and Measurement Society India (ATMS India)*, Ahmedabad, IN, 9th -11th February, 2011, pp. 18-22.
15. Dhoot, Vivek and **Gupta, Sanjeev**. "A Novel Multi-fractal Cantor Based Multi-band Antenna for Various Wireless Applications", in *Proceedings of 1st International Conference on 'Current Trends in Technology (NUICONE)*, Ahmedabad, IN, 9th -11th December, 2010, pp. 143-146.
16. Upla, Kishor P.; Gajjar, Prakash P. and **Joshi, Manjunath V.** "Multiresolution fusion using contourlet transform based edge learning," in *Proceedings of IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, Vancouver, 24th – 29th July, 2011, pp. 523-526.
17. Upla, Kishor; Gajjar, Prakash P.; **Joshi, Manjunath V.**; **Banerjee, Asim** and Singh, Vineet. "A fast approach for edge preserving super-resolution," in *Proceedings of IEEE International Conference on Multimedia and Expo (ICME)*, Barcelona, Spain, 11th -15th July, 2011, pp. 1-6.
18. Garg, Prashant.; Maheshwari, Mohit.; Dubey, S.; **Joshi, Manjunath.V.**; **Chakka, Vijaykumar.**; **Banerjee, Asim**. "Alias minimization of 1-D signals using DCT based learning", in *Proceedings of 53rd IEEE International Midwest Symposium on Circuits and Systems (IEEE MWSCAS)*, Seattle, WA, USA, 1st – 4th August, 2010, pp. 1121-1124.
19. Gupta, Parth; Rao, Sameer and **Majumder, Prasenjit**. "External plagiarism detection: N-Gram approach using named entity recognizer", in *Proceedings of Lab Report for PAN at Conference on Multilingual and Multimodal Information Access Evaluation (CLEF)*, Padua, Italy, 22nd – 23rd September, 2010.
20. Naveen Kumar; **Mathuria, Anish** and **Das, Manik Lal**. "On classifying indirect key assignment schemes for hierarchical access control", in *Proceedings of 10th National Workshop on Cryptology 2010 (NWCR)*, Coimbatore, IN, 2nd – 4th September, 2010, pp. 133-139.
21. Joshi, Gauri; Dwivedi, Sudhanshu; Goel, Anshul; **Mulherkar, Jaideep** and **Ranjan, Prabhat**. "Power and buffer overflow optimization in wireless sensor nodes", in *Proceedings of First International Conference on Computer Science and Information Technology (CCSIT), Advanced Computing*, vol. 133, part 5, Bangalore, IN, 2nd – 4th January, 2011, pp. 450-458.
22. Garg, Prashant; Chasta, Neeraj; Maheshwari, Mohit and **Nagchoudhuri, Dipankar**. "Static power reduction utilizing data dependency in MBFA topologies," in *Proceedings of IEEE 3rd International Conference on Electronics Computer Technology (ICECT)*, Kanyakumari, IN, 8th – 10th April, 2011, pp. 122-125.

23. Garg, Prashant; Chasta, Neeraj; Maheshwari, Mohit and **Nagchoudhuri, Dipankar**. "Optimizing APT product in MBFA topologies," in *Proceedings of IEEE Asia Pacific Conference on Circuits and Systems (APCCAS)*, Kuala Lumpur, Malaysia, 6th – 9th December, 2010, pp. 212-215.
24. Purushothaman, A. and **Parikh, Chetan D.** "Automating the design of successive approximation analog to digital converters," in *Proceedings of IEEE 15th VLSI Design and Test Symposium (VDAT)*, Pune, IN, 7th – 9th July, 2011, pp. 1-10.
25. **Parikh, Chetan D.** and Amara, Amara. "A 110-MHz rail-to-rail amplifier with double-gate MOSFETs," in *Proceedings of IEEE 15th VLSI Design and Test Symposium (VDAT)*, Pune, IN, 7th – 9th July, 2011, pp. 1-10.
26. **Parikh, Chetan D.; Nagchoudhuri, D.** and Amara, Amara. "A 0.7-V rail-to-rail buffer amplifier with double-gate MOSFETs," in *Proceedings of 10th Low Voltage Low Power Conference (FTFC)*, Marrakech, Morocco, 30th May – 1st June, 2011, pp. 1-4.
27. **Parikh, Radha.** "Is ethics important in a virtual world?," in *Proceedings of Annual International Conference on Infocomm Technologies in Competitive Strategies (ICT)*, Singapore, 25th – 26th October, 2010, pp. 1-6.
28. Sen, Nirmalya; Basu, T. K. and **Patil, Hemant A.** "New features extracted from Nyquist filter bank for text-independent speaker identification", in *Proceedings of Annual IEEE India Conference (INDICON)*, Kolkata, IN, 17th – 19th December, 2010, pp. 1-5.
29. **Ranjan, Prabhat.** "Brain-CePal : environment control system based on brain computer interface", in *Proceedings of National Conference on Assistive Technology (NCAT)*, Hyderabad, IN, 29th – 31st July, 2011.
30. Garg, Prashant; Sabnani, Hitesh; Maheshwari, Mohit; Bagree, Ravi and **Ranjan, Prabhat.** "CePal: an infrared based remote control for cerebral palsy patients", in *Proceedings of International Symposium on Electronic System Design (ISED)*, Bhubaneswar, IN, 20th – 22nd December, 2010, pp. 153-157.
31. Bagree, Ravi; Jain, Vishwas Raj; Aman Kumar and **Ranjan, Prabhat.** "TigerCENSE: wireless image sensor network to monitor tiger movement", in *Proceedings of Fourth International Workshop on Real-World Wireless Sensor Networks (REALWSN)*, (LNCS vol. 6511/2010) Colombo, Sri Lanka, 16th -17th December, 2010, pp. 13-24.
32. **Ranjan, Juhi; Shah, Hiren; Joshi, Sanika; Chokhra, Brijesh and Ranjan, Prabhat.** "RF-CePal: a universal remote control based on MEMS accelerometer", in *Proceedings of Sixth IEEE Conference on Wireless Communication and Sensor Networks (WCSN)*, Allahabad, IN, 15th – 19th December, 2010, pp. 1-6.
33. **Mehta, Parth; Kant, Pavas; Shah, Poojan and Roy, Anil K.** "VI-Navi: a novel indoor navigation system for visually impaired people", in *Proceedings of 12th International Conference on Computer Systems and Technologies (CompSysTech)*, Vienna, Austria, 16th – 17th June, 2011, pp. 365-371.
34. **Sen, Subhajit** and Hadji-Abdolhamid, Amir. "A low glitch current switch with reduced swing and its application to PLL charge pump," in *Proceedings of 15th VLSI Design and Test Symposium (VDAT)*, Pune, IN, 7th – 9th July, 2011.
35. **Sharan, Girja.** "Pick important problem (theoretical or empirical) solve it, look for user peer feedback if good, just do more of it, it is research," in *Proceedings of 3rd Conference on Excellence in Research and Education*, Indore, IN, 13th – 16th May, 2011.

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36. Theurer, D.; Kennedy, M.; **Venkataraman Hrishikesh** and Muntean, G.M. "Analysis of individual energy consuming components in a wireless handheld device," in *Proceedings of China Ireland International Conference on Information and Communications Technology (CICT)*, Wuhan, China, 8th – 9th October, 2010, pp. 108 – 112.

Report

1. **Bhatt, Amit**. *Mobile Telecom Ecocystem: A Study of Technology and Business Trends Affecting the Mobile Telecom Industry*, Ahmedabad: IITCOE Centre, Indian Institute of Management, 2011.

Student Publications

1. Narendra Kumar, N.V.; *Goswami, Vivek*; Bansal, Richya and Shyamasundar, R.K. "Metamorphic virus: is it amenable to algorithmic detection?," in *Proceedings of the 13th Association of anti Virus Asia Researchers International Conference (AVAR)*, Bali, Indonesia, 17th – 19th November, 2010.
2. Ramachandran, Divya; *Goswami, Vivek* and Canny, John. "Research and reality: using mobile messages to promote maternal health in rural India", in *Proceedings of the 4th IEEE/ACM International Conference on Information and Communication Technologies and Development (ICTD)*, London, UK, 13th – 16th December, 2010.
3. Lomas, Derek; *Patel, Kishan*; Medikonda, Dheeraj; *Shah, Darsh*; *Soni, Yash*; *Pahwa, Anshul* and Ching, Dixie. "Play exemplars from playpower.org," in *Proceedings of International Academic Conference on Meaningful Play*, East Lansing, Michigan 21st – 23rd October, 2010.
4. *Gupta, Aakar*; *Shekhar, Praveen*; *Samdaria, Navkar*; *Jain, M.* and Pal, J. "DISHA: multiple mice in narrative content-based computer aided learning for children", in *Proceedings of India HCI 2010/ Interaction Design for International Development (IDID)*, Mumbai, IN, 2010.
5. *Jain, Amol*; *Lohani, Manish*; *Chaurasia, Anshul*; *Anuj Kumar* and Matthew Kam. "A comprehensive packaging scheme for educational mini games", in *Proceedings of India HCI 2010/ Interaction Design and International Development*, Mumbai, IN, 20th – 24th March, 2010.
6. *Patel, Kishan*; Lomas, Derek: "Exploring the Design Space of Telephony Applications for Community Organizations and Social Activism", in *Proceedings of Workshop on HCI, Politics and the City: Engaging with Grassroots Communities for Reflection and Action co located with ACM CHI Conference on Human Factors in Computing Systems*, Vancouver, Canada, 7th – 12th May, 2011, pp. 1-5.
7. *Samdaria, Navkar*; *Shekhar, Praveen*; *Gupta, Aakar* and Hutchful, David. "Teachers as game designers: lessons from a collaborative learning experience", in *Proceedings of the 3rd International Conference on Human Computer Interaction (HCI)*, Bangalore, IN, 7th – 10th April, 2011.
8. Goyani, Mahesh; *Shikkenawis, Gitam* and Joshi, Brijesh. "Geometry and skin color based hybrid approach for face tracking in color environment", in *Advances in Computer Science and Information Technology (Advances in Computer Science and Information Technology vol.131, part 2) Proceedings of First International Conference on Computer Science and Information Technology (CCSIT)*, Bangalore, IN, 2nd – 4th January, 2011, pp. 339-347.



ACADEMIC EVENTS

In addition to teaching and research, the Institute is also involved in organizing and hosting a number of professional events and activities such as conferences, seminars and workshops which serve as a platform for promoting interactions with wider academic and research community in India and abroad. The details of such events held at the Institute during the reporting year are given here.

Conferences/Seminars/Workshops

Sixth International Conference on Information Systems Security
DA-IICT, 15th -19th December, 2010.

A major international conference in the security area, ICISS 2010, was held on the Institute campus in December. The program committee of ICISS 2010 consisted of distinguished scholars in the field of security. DA-IICT faculty member, Prof. Anish Mathuria, served in the key position of program co-chair. The conference attracted submission from nineteen countries all over the world. The conference program consisted of refereed paper sessions and 4 invited keynote talks by eminent security researchers from Cornell, UIC, Georgia Tech and Microsoft Research. All these refereed papers were broughtout as a part of Lecture Notes of Computer Science series.

Workshop on GIS Technology organized by
DA-IICT and IEEE DA-IICT Student Branch and ESRI-India, 30th July, 2011.

Summer School-2011- a technological initiative
DA-IICT and IEEE DA-IICT Student Branch, 13th -25th June, 2011.

Sensor Networks Workshop-2011
DA-IICT and IEEE DA-IICT Student Branch, 10th April, 2011.

Symposium on Artificial Intelligence
DA-IICT and IEEE DA-IICT Student Branch, 3rd April, 2011.

Workshop/Talk on Artificial Intelligence
DA-IICT and IEEE DA-IICT Student Branch, 19th February, 2011.

Workshop on Cyber Security
DA-IICT and IEEE DA-IICT Student Branch, 13th – 14th November, 2010.

Workshop on Effective Business Plan Writing by Mr. Kaushal Mehta, CEO, Motif
CEID, DA-IICT and TiE Ahmedabad Chapter, 13th November, 2010.

i-FEST
DA-IICT and IEEE DA-IICT Student Branch, 25th – 26th September, 2010.

Workshop on Ethical Hacking and Information Security
DA-IICT and IEEE DA-IICT Student Branch, 11th September, 2010.

Workshop on Embedded Systems
DA-IICT and IEEE DA-IICT Student Branch, 7th - 8th August, 2010.



Institute Lectures

Institute initiated a new series of occasional institute lectures for the entire DA-IICT community by members of the faculty. The first lecture in the series was delivered by Professor Ganesh Devy on the following topic.

Aphasia and Speech - The Question of Language Conservation

Prof. Ganesh Devy, DA-IICT, Gandhinagar, 21st October, 2010.

Special Lectures

The Institute regularly invites experts from academic institutions and industry to deliver lectures on cutting edge areas in engineering and technology. The following nine special lectures were held during the academic year 2010-11.

Entrepreneurship

Ms. Rashmi Bansal, Entrepreneur and Youth Expert, 08th July, 2011.

Human Computing Experiences

Dr. Amit Sheth, Professor, Wright State University, Ohio, USA, 25th March, 2011.

Advance Error Correcting Codes: State of the Art Decoding Algorithms and Future Outlook

Mr. Mayur Puneekar, University College Dublin (UCD), Ireland, 4th January, 2011.

Application of Engineering Principles in Biology

Prof. Pawan Dhar, Director, Centre for Systems and Synthetic Biology, University of Kerala, Thiruvananthapuram, 11th November, 2010.

CMOS Process Variations: A “Critical Operation Point” Hypothesis

Prof. Janak Patel, University of Illinois, Urbana-Champaign, 22nd October, 2010.

Missile Guidance Systems

Shri. Avinash Chander, Director, Advanced Systems Laboratory, DRDO, Hyderabad, 1st October, 2010.

W3C Technology and Web Development - A Primer

Shri. Shwetank Dixit, Opera Software, 17th September, 2010.

Health and Affordable Technology

Dr. Amit Sengupta, IIT Delhi, 11th September, 2010.

OFDMA in 3GPP LTE-A and IEEE 802.16m standards: Why, What and How

Prof. Bhaskar Ramamurthi, Professor, Dept. of Computer Science, IIT Madras, Chennai, 27th August, 2010.



Visitors

1. Mr. Emmanuel Hategeka, Permanent Secretary, Ministry of Trade and Industry, Republic of Rwanda, Mr. Nkurikiyimfura K Didier, Divisional Manager, Information Technology Department, Rwanda Development Board and Mr. Alfred Ndabarasa, First Counsellor, Rwanda High Commission in India visited the Institute on 13th January, 2011.
2. Dr. Abdelillah Abdullah Al Mushararf, President, Educational Consulting & Institute Technology, Kingdom Saudi Arabia along with a delegation led by Mr. Surojit Daw of Reliance HR Services (DAKC) visited the Institute on 8th December, 2010.
3. A group of 15 faculty members from Chaudhary Technical Institute, Gandhinagar visited the Resource Centre on 2nd November, 2010. They were given a detailed tour of RC and introduced to various resources and services offered.





FACULTY AND STAFF UPDATES

FACULTY

As of July 2011, the full-time faculty included 49 regular faculty members and three visiting faculty members. The Institute also had 17 adjunct faculty members who taught specialized courses to the various programs. Complete list is available at **Annexure 3**.

New Faculty

Three new faculty members joined the Institute during the year 2010-11.

1. Dr. Preetida V Jani joined on 3rd January, 2011 as Associate Professor. She was previously with Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat.
2. Dr. Amit R Bhatt joined on 1st February, 2011 as Associate Professor. He was previously with ARM Embedded Systems Private Limited, Bangalore.
3. Dr. Dipankar Pal joined on 5th July, 2011 as Professor. He was previously with Dr. B. C. Roy Engineering College, Durgapur.

Faculty Resignations

1. Dr. Hrishikesh Venkataraman, Assistant Professor, left w.e.f. 25th February 2011.
2. Dr. P. Sumathi, Assistant Professor, left w.e.f. 29th April, 2011.
3. Shri. Aditi Nath Sarkar, Associate Professor, left w.e.f. 31st May, 2011.
4. Shri. S. Sethuraman, Technical Advisor, left w.e.f. 31st July, 2011.

STAFF

DA-IICT has a lean and efficient staff structure, mainly housed in the Administration Building adjacent to the Director's office. The staff is well-qualified and fully equipped with required IT infrastructure. A complete list of the staff members is given in **Annexure 4**.

New Staff

Six new staff members joined the Institute during the year 2010-11.

1. Mr. Mukesh Thaker joined as Secretary to Dean (R&D) on 6th May, 2011.
2. Mr. B. Sreekumar joined as Deputy Registrar (Academic) on 3rd June, 2011.
3. Mr. Mukesh Sharma joined as Placement and CEP Officer on 6th June, 2011.
4. Ms. Firoja Sheikh joined as Laboratory Assistant on 17th June, 2011.
5. Mr. Bhargav Patel joined as Laboratory Assistant on 17th June, 2011.
6. Mr. Naresh Patel joined as Laboratory Assistant on 7th July, 2011.

Staff Resignations

1. Ms. Devangi Chavda, Laboratory Assistant (w.e.f. 31st January, 2011).
2. Mr. Kalpesh Yagnik, Laboratory Assistant (w.e.f. 7th October, 2010).
3. Ms. Dipali Thaker, Laboratory Assistant (w.e.f. 8th July, 2011).



FACULTY AND STAFF: AWARDS AND PROFESSIONAL ACTIVITIES

The faculty and staff continued to be actively involved in international, national, state and local level professional activities and made significant contributions at all levels. They also won several awards, received numerous honours and fellowships, and presented a large number of invited talks all over the country, and also abroad. Below is a listing of the major recognitions and activities of the faculty and staff of the Institute.

AWARDS/HONOURS

Prof. S. C. Sahasrabudhe

Dewang Mehta Award for outstanding contribution to education, 24th November, 2010.

Prof. Ganesh Devy

Linguapax Award 2011 for Safeguarding Language Diversity, Barcelona, 31st May, 2011.

Dr. T. S. Kumbar

Best Librarian Award by Management Libraries Network (MANLIBNET) for the year 2010. 23rd November, 2010.

Prof. Anil Roy

IEEE Region 10 Outstanding Volunteer Award 2010.

HONORARY WORK/POSITIONS HELD ON PROFESSIONAL BODIES

Prof. Asim Banerjee

Member, Board of Studies, Faculty of Engineering, Nirma University

Member, Board of Studies, UV Patel College of Engineering, Ganpat University, Mehsana

Prof. Vijaykumar Chakka

Member, Academic Council and Board of Studies, Ganpat University, Mehsana

Prof. Sanjay Chaudhary

Chair, Computer Society Chapter, IEEE Gujarat Section, 2010-2011.

Prof. Ganesh Devy

Member, Round Table on Indigenous Knowledge and Endangered Languages, Ministry of Human Resource Development, Government of India.

Member, Committee on Indigenous Languages and Special Study Centre, University Grants Commission.

Member, Committee of Living Cultural Traditions, Ministry of Culture, Government of India.

Advisor, South Asia Board, Aide et Action, Paris.

Prof. Rahul Dubey

Chair, IEEE Gujarat Section Chapter and Joint Chapter of Industrial Applications Society, Industrial Electronics and Power Electronics Society.

Member, Board of Studies, Instrumentation and Control Engineering, Nirma University, Ahmedabad.



Prof. Deepak Ghodgaonkar

Chair, IEEE Gujarat Section, India, 2011.

Chapter Coordinator, IEEE Gujarat Section, 2010.

Vice-Chair, IEEE Antennas and Propagation Society and Microwave Theory and Techniques Society, Joint Chapter, IEEE Gujarat Section, 2010.

Prof. Sanjeev Gupta

Member, Board of Studies for SATCOM (Satellite Communications) Course conducted by Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP – affiliated to the United Nations), IIRS Campus, Dehradun (Headquarters) and SAC Campus, Ahmedabad.

Member, Agilent's Test Advisory Panel.

Member, Board of Studies, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat.

Expert Member, Research and Development Committee (RDC), Kadi Sarva Vishvavidyalaya, LDRP Campus, Gandhinagar.

Prof. B. N. Hiremath

Member, Board of Governors, Jaipur Rugs Foundation, Jaipur.

Prof. Manjunath V. Joshi

Member, Expert Committee, National Board of Accreditation (NBA).

Dr. T. S. Kumbar

Panel Member to review and recommend research proposals for "2011 Indian LIS Research Fund Award", by Emerald Group Publisher Ltd. U.K., July, 2011.

Prof. Suman K. Mitra

Secretary, IEEE Gujarat Section 2011.

Prof. Alka Parikh

Member, Planning Commission's Working Group on Disaster Management for 12th Five Year Plan, Government of India, 2011.

Prof. Radha Parikh

Member, Rabbani School Board, Gwalior, MP.

Prof. Mehul Raval

Student Activity Chair, IEEE Gujarat Section.

Member, Board of Studies, Electronics and Computer Engineering, Veer Narmad South Gujarat University, Surat.

Prof. S. C. Sahasrabudhe

Member, Sonar and Signal Behavior Research Panel, Navy Research Board (NRB), DRDO.

Member, Governing Body, Consumer Education and Research Society (CERS), Ahmedabad.

Chairman, Peer Committee, Visiting Team for Evaluation of the Institutes, National Assessment and Accreditation Council (NAAC).

Chairman, Peer Committee, Visiting Team for Evaluation of the Institutes, National Board of Accreditation (NBA).

Member, Core Committee, AICTE, New Delhi.



Member, Working Group on Technology Development for Indian Languages, Dept. of Information Technology, Govt. of India.

Member, Governing Council, Electronics and Quality Development Centre, (EQDC) Govt. of Gujarat.

Member, Research Progress Committee (RPC), Nirma University, Ahmedabad.

Special Invitee, Indian Engineering Dean's Council, Indian Chapter of GEDC of Indian Society for Technical Education, (ISTE), Bengaluru and Sivakasi, Tamil Nadu.

Member, Board of Advisory Committee, Sri Ramdeobaba Kamla Nehru Engineering College, Nagpur.

Member, Board of Management, Yashwantrao Chavan College of Engineering (YCCE), Nagpur. External Expert, Recruitment and Assessment Centre (RAC), DRDO.

Member, Board of Directors, Sahajanand Laser Technology Ltd., Gandhinagar.

Prof. Tridip Suhrud

Honorary Director, Adivasi Academy, Tejgadh.

Member, Standing Committee, Sabarmati Ashram Memorial and Preservation Trust, Ahmedabad.

FELLOWSHIPS/VISITING SCHOLAR

Prof. Sanjay Chaudhary

Visiting Research Scholar, Wright State University, Ohio, USA from 1st July to 15th October, 2010

Prof. Ganesh Devy

Visiting Professor, Indian Institute of Advanced Study (IIAS), Simla, July, 2011.

Prof. Tridip Suhrud

Visiting Scholar, Indian Institute of Advanced Study (IIAS), Simla, May-July, 2011.

JOURNAL EDITORSHIP

Prof. Asim Banerjee

Editorial Board, GIT-Journal Engineering and Technology: A State level Research Journal, Gandhinagar Institute of Technology, ISSN: 1682-0053.

Prof. Suman K. Mitra

Associate Editor, International Journal of Image and Graphics, World Scientific.

Prof. Manjunath V. Joshi

Editorial Board Member, The Open Cybernetics and Systemics Journal, Bentham Open.

Prof. Sanjeev Gupta

Editorial Board Member, International Journal of Advanced Communication Technology, Serials Publications.

Prof. Hemant A. Patil

Editorial Board Member, Engineering Letters, International Association of Engineers (IAS).



Prof. Shiv Visvanathan

Member, Editorial Board, Global Environmental Politics, MIT Press.
Member, Editorial Board, International Political Sociology, Wiley-Blackwell.
Member, Editorial Advisory Board, Journal of Creative Communication, Sage.
Member, Editorial Review Board, Consumption Market and Cultures, Routledge.
Member, Editorial Advisory Board, International Journal of Gandhian Studies, James Madison University.

REVIEWING

Book Chapters

Prof. Vijaykumar Chakka

Analog and Digital Communication, Tata McGraw-Hill.
Digital System Design, Cyngage.

Prof. Sanjeev Gupta

Analog and Digital Communication, Tata McGraw-Hill.

Journal Paper Reviewing

Prof. Minal Bhise

Knowledge and Information Systems (KAIS), Springer Verlag.
International Journal of Software Engineering and Knowledge Engineering (IJSEKE), World Scientific.

Prof. Vijaykumar Chakka

IET Communications.
Advances in Bioinformatics, Hindawi.

Prof. Sanjay Chaudhary

Future Generation Computer Systems, Elsevier.
IEEE Communications Letters.
International Journal of Semantic Web and Information Systems, IGI Global.

Prof. Manik Lal Das

Computers and Security, Elsevier.
IEEE Transactions on Wireless Communications.
IEEE Communications Letter.
Journal of System Software, Elsevier.

Prof. Deepak Ghodgaonkar

IEEE Transactions on Instrumentation and Measurement (IM).
IEEE Transactions on Microwave Theory and Techniques (MTT).
IEEE Transactions on Antennas and Propagation (AP).

Prof. Sanjeev Gupta

Journal of Electromagnetic Waves and Applications (JEMWA).
Progress in Electromagnetic Research (PIER), Electromagnetics Academy.



IET Circuits, Devices and Systems Journal.

Indian Journal of Physics.

Journal of the Indian Institute of Science, IISc.

Iranian Journal of Electrical and Computer Engineering (IJECE), Iranian Research Institute for Electrical Engineering (I.R.I.E.E.).

International Journal on Science and Technology, IJSAT, ISSN 2229-7677.

ICTACT Journal of Communication Technology (IJCT), ICT Academy of Tamil Nadu.

Prof. Manjunath V. Joshi

IEEE Image Processing.

IEEE Transactions Geoscience and Remote Sensing.

IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics.

Prof. Hemant A. Patil

International Journal of Speech Technology (IJST), Springer Verlag.

Circuits, Systems and Signal Processing, Springer Verlag.

Prof. Mehul S. Raval

IEEE Transactions on Instrumentation and Measurement.

Advanced Techniques in Multimedia Watermarking: Image, Video and Audio Applications, IGI Global.

International journal on Image and Graphics, World Scientific.

Prof. Subhajit Sen

IEEE Transactions on Circuits and Systems II.

Prof. Girja Sharan

African Journal of Biotechnology (AJB), Academic Journals.

Annals of Arid Zone Research, Arid Zone Research Association of India.

Food Chain, Practical Action Publishing.

Indian Journal of Agricultural Engineering, Indian Society of Agricultural Engineers.

Journal of Construction in Developing Countries.

Prof. Sanjay Srivastava

IEEE Transactions on Aerospace and Electronic Systems.

Prof. Mukesh Tiwari

Modern Physics Letters B (MPLB), World Scientific.

Prof. Alka Parikh

Food Chain, Practical Action Publishing.

Prof. Sunitha V.

IEEE Transactions on Parallel and Distributed Systems.

Journal of Computer Mathematics, Taylor and Francis.

Prof. Mazad S. Zaveri

IEEE Transactions on Neural Networks.



Conference Paper Reviewing

Prof. Ashok Amin

International Conference on Intelligent Systems and Data Processing (ICISD), G. H. Patel College of Engineering and Technology, 24th – 25th January, 2011.

Prof. Asim Banerjee

National Conference on Emerging Trends and Applications in Computer Science (NCETACS), Shillong, 4th – 5th March, 2011.

National Conference on Communication (NCC), Bengaluru, January 28-30, 2011

Seventh Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP), Chennai, 12th – 15th December, 2010.

First International Conference on Current Trends in Technology (NUICONE), Ahmedabad, 9th – 11th December, 2010.

Prof. Minal Bhise

Seventh International Conference on Web Information Systems and Technologies (WEBIST), Netherlands, 6th – 9th May, 2011.

Prof. Sanjay Chaudhary

International Workshop on Identity: Security, Management and Applications (ID), Kochi, Kerala, 22nd – 24th July, 2011.

Eighth IEEE 2010 International Conference on Services Computing (SCC), Washington, DC, USA, 5th – 10th July, 2011.

International Conference on Communication Systems and Network Technologies (CSNT), Mata Vaishno Devi University, Katra, Jammu, 3rd – 5th June, 2011.

ACM Compute 2011, Bengaluru, 25th – 26th March, 2011.

13th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), Kolkata, 12th – 15th November, 2010.

Prof. Vijaykumar Chakka

IEEE Wireless Communications and Networking Conference (IEEE WCNC), Quintana-Roo, Mexico, 28th – 31st March, 2011.

International Conference on Devices and Communications (ICDeCOM), Mesra, 24th – 25th February, 2011.

International Conference on Communication Computing and Security (ICCCS), Rourkela, 12th – 14th February, 2011.

International Conference on Communications and Signal Processing (ICCSP), Kerala, 10th – 12th February, 2011.

First International Conference on Current Trends in Technology (NUICONE), Ahmedabad, 9th – 11th December, 2010.

Prof. Manik Lal Das

International Workshop on Identity - Security, Management and Applications (ID), Kochi, 22nd – 24th July, 2011.



International Workshop on Convergence Security in Pervasive Environments (IWCS), Loutraki, Greece, 28th – 30th June, 2011.

International Conference on Computing, Communication, and Control (ICAC3), Mumbai, 28th – 29th January, 2011.

Workshop on the Security of the Internet of Things (SecIoT), Tokyo, Japan, 29th November – 1st December, 2010.

Prof. Sanjeev Gupta

Seventeenth National Conference on Communications (NCC), Bengaluru, 28th - 30th January, 2011.

Second IEEE International Conference on Communication and Computing Technologies (ICCCT), Jalandhar, 25th – 26th February, 2011.

International Conference on Communication and Signal Processing (ICCSP), Calicut, 10th – 12th February, 2011.

International Conference on Information, Signal and Communication (ICISC), New Vallabh Vidyanagar, 5th – 6th February, 2011.

First International Conference on Current Trends in Technology (NUICONE), Ahmedabad, 9th – 11th December, 2010.

Prof. Manjunath V. Joshi

IEEE Geoscience and Remote Sensing Symposium (IGRSS), Vancouver, Canada, 24th – 29th March, 2011.

Dr. T. S. Kumbar

Eighth International Convention on Automation of Libraries in Education and Research Institutions (CALIBER), Goa, 2nd – 4th March, 2011.

Prof. Mehul S. Raval

IEEE International Conference on Communication Systems and Network Technologies (CSNT), Gwalior, 3rd – 5th June, 2011.

National Conference on Recent Trends in Engineering and Technology (NCRTEET), Vallabh Vidyanagar, 13th – 14th May, 2011.

International Conference on Innovative Science and Engineering Technology (IEISET), Rajkot, 8th – 9th April, 2011.

ACM Compute 2011, Bengaluru, 25th – 26th March, 2011.

National Conference on Emerging Trends and Applications in Computer Science (NCETACS), Shillong, 4th – 5th March, 2011.

International Conference on Communication, Computing and Security (ICCCS), Rourkela, 12th – 14th February, 2011.

International Conference on Information, Signal and Communication (ICISC), New Vallabh Vidyanagar, 5th – 6th February, 2011.

International Conference on Intelligent Systems and Data Processing (ICISD), Vallabh Vidyanagar, 24th – 25th January, 2011.



Second International Conference on Signals, Systems and Automation (ICSSA), Vallabh Vidyanagar, 24th – 25th January, 2011.

International Conference on Computer and Communication Technology (ICCCCT), Allahabad, 17th – 19th September, 2010.

Prof. Sanjay Srivastava

Seventh International Conference on Distributed Computing and Internet Technology (ICDCIT), Bhubaneswar, 9th – 12th February, 2011.

Third International Conference on Communication Systems and Networks (COMSNETS), Bengaluru, 4th – 8th January, 2011.

Prof. Mazad S. Zaveri

International Conference on Advances in Computing, Communication and Control (ICAC3), Mumbai, 28th – 29th January, 2011.

INVITED LECTURES/TALKS/COURSES

Prof. Asim Banerjee

'Team Building', GIDC, Gandhinagar, 2nd July, 2011.

'Medical Imaging Modalities', GIT, Gandhinagar, 28th May, 2011.

'Software Engineering', Short Term Training Programme on "Emerging Trends in Software Engineering", GIT, Gandhinagar, 23rd – 27th May, 2011.

'Image and Video Processing', Ganpat University, 7th May, 2011.

Keynote address, 'Role of ICT in Everyday Life', IEEE Sponsored National Conference on Knowledge Intelligence and Telematics (KITE), Mehasana, 11th – 12th March, 2011.

Keynote talk, 'Video and Audio Processing' First International Conference on Current Trends in Technology (NUICONE), Ahmedabad, 9th – 11th December, 2010.

Prof. Vijaykumar Chakka

'Adaptive signal Processing and its applications', Short Term Training Programme on Advanced Signal and Image Processing, Nirma University, Ahmedabad, December, 10th December, 2010.

Taught Course on Digital Signal Processing, IIT Gandhinagar December 2010 – May 2011.

Prof. Sanjay Chaudhary

'Agro-Produce Marketing Using Social Network - Twitter', International Conference on "Celebrating 50 Years of Swarnim Gujarat: The Role of Gujarati Diaspora", North Gujarat University, Patan, 2nd January, 2011.

'Service-Oriented Computing', Ahmedabad University, 21st February, 2011.

'Cloud Computing Concepts and Applications', Center for Environmental Planning and Technology, Ahmedabad, 29th March, 2011.

'Web Search and Search Engine, Academic Staff College', Sardar Patel University, Vallabh Vidyanagar, Anand, 14th April, 2011.

Prof. Rahul Dubey

'Recent Trends in FPGA Based Design', ISTE National Workshop on Mixed Signal VLSI Design, LCIT Bhandu, 28th January, 2011.



Prof. Sanjeev Gupta

'Microwave Antennas', B H Gardi College of Engineering and Technology, Rajkot, 23rd July, 2011.

'Wireless System Design', Kalol Institute of Technology and Research Centre (KITRC), 26th April, 2011.

'Effective Research Methodology', LCIT, Bhandu, Mehsana, 16th April, 2011.

'Issues in High Frequency Communication System Design', Atmiya Institute of Technology, Rajkot, 9th October, 2010.

'Issues in RF Communication System Design', Om Shanti Engineering College, Rajkot, 25th September, 2010.

'Microstrip Antennas', One-day Workshop on 'Advances in Microstrip Antenna Technology', IEEE AP/MTT Joint Chapter, Gujarat Section, Nirma University, Ahmedabad, 11th September, 2010.

Prof. B. N. Hiremath

'Capacity Building of Faculty in Research Methodology', Charotar University of Science and Technology, Changa, Februray-April, 2011.

Invited Discussant Expert Panel on the occasion of launching the book State of the World 2011: Innovations that Nourish the Planet, published by the Worldwatch Institute, Centre for Environment Education, Ahmedabd, 17th February, 2011.

'Macroeconomic Perspective on Food Security in India', Centre for Food Security and Agro-Economy Gujarat National Law University, Gandhinagar, 6th April, 2011.

Prof. Pokhar M. Jat

'Object Oriented Programming with Java' IEEE Computer Society Workshop, Marwadi Education Society, Rajkot, 26th – 27th February, 2011.

Prof. Manjunath V. Joshi

'Image Processing', Kalol Institute of Technology and Research Centre, Gandhinagar, 26th April, 2011.

'Image in Painting and Compressive Sensing', Nirma University, Ahmedabad, 30th December, 2010.

'Image Processing, Computer Vision and their Applications', Short Term Training Programe on Soft Computing, LDRP ITR, Gandhinagar, 4th December, 2010.

Taught a course on 'Communication Systems', Indian Institute of Technology, Gandhinagar, Autumn Semester, 2010.

Dr. T. S. Kumbar

'Discovering Invisible Knowledge in Theses and Dissertations: An Overview of ETD Initiatives', Eighth International Convention on Automation of Libraries in Education and Research Institutions (CALIBER), Goa, 2nd – 4th March, 2011.

Prof. Prasenjit Majumder

'Forum for Information Retrieval Evaluation (FIRE)', Aula Magna, Palazzo del Bo, University of Padova, Italy, 21st September, 2010.

Prof. Anish Mathuria

'Extensions and Improvement to Logic-Based Synthesis of Security Protocols', First International Workshop on Issues in Computing over Emerging Mobile Networks, New Delhi, 31st October, 2010.



'Security of Diffie-Hellman-DSA Authenticated Key Exchange: Attacks and Modeling Issues', 10th National Workshop on Cryptology, PSG Tech, Coimbatore, 3rd September, 2010.

Prof. Rahul Muthu

"Cartesian Product, Strong Product and Acyclic Edge Colouring", National Workshop on Graph Products, Periyar University, Salem, NBHM and DST, 22nd – 25th June, 2011.

Prof. Vishvajit Pandya

"Tribal Studies in a Reflexive Mode", University Lecture Series 'Frontier Lecture' Tribal Studies Department. University of Calicut, Calicut, 9th February, 2011.

'Constructing Jarawa Future: Policy and Culture', Planning Commission and National Advisory Council Members, Yojna Bhavan, New Delhi, 16th May, 2011.

Prof. Chetan Parikh

"An Introduction to Phase-Locked Loops", Half-day Tutorial, 15th VLSI Design and Test Symposium, Pune, 7th – 9th July, 2011. (Co-resource persons: Dipankar Nagchoudhuri and Subhajit Sen)

"Advanced Electronic Circuits", Three day short course on Advanced Electronic Circuits, at Marwadi Education Foundation's College of Engineering, Rajkot, 17th – 19th March, 2011.

Prof. Radha M. Parikh

"Communication Skills", Workshop, Marwadi Education Foundation's Engineering College, Rajkot, 12th October, 2010.

Prof. Hemant A. Patil

'Wavelet Signal Processing', Short Term Training Programme on Recent Trends in Image Processing, Atmiya Institute of Technology and Science, Rajkot, 9th July, 2011.

'Introduction to the Speaker Recognition Systems, Applications of Digital Signal Processing', Kadi Sarva Viswavidyalaya University, Gandhinagar, 12th – 13th March, 2011.

'On the Evaluation of Mimic Resistance for Speaker Recognition System', First National Conference on Advancements in Signal Processing and Integrated Networks, Amity School of Engineering and Technology, Noida, 24th – 25th February, 2011.

'Various Aspects of Design of Speaker Recognition Systems', ISTE Approved Short Term Training Programme on Advanced Signal and Image Processing, Institute of Technology, Nirma University 27th December, 2010 – 1st January, 2011.

Keynote address, 'Design of 'Speaker Recognition Systems', National Conference on Recent Trends in VLSI Design and Signal Processing, Gyan Ganga Institute of Technology and Management, Bhopal, 20th November, 2010.

Prof. Laxminarayana Pillutla

"Overview on WiFi and WiMax", National Workshop on Simulation of Networks Using NS2 2010 (NWSN), ISTAR, Vallabh Vidyanagar, Anand, 24th September, 2010.

Prof. Prabhat Ranjan

'Wildlife Tracking Using Wireless Sensor Networks', B. H. Gardi College of Engineering and Technology, Rajkot, 23rd July, 2011.



'Challenges of WSN Development for Wildlife Tracking and Planetary Exploration', Short Term Training Program on "Research Avenues in Sensor Network", Nirma University, Ahmedabad, 29th June, 2011.

'Automatic Weather Station Network for Bihar', Workshop by Department of Planning and Development, Government of Bihar, Patna, 13th May, 2011.

'Wildlife Tracking Using Wireless Sensor Networks', Om Shanti Engineering College, Rajkot, 2nd April, 2011.

'Wireless Sensor Network for Wildlife Tracking and Planetary Exploration', Indo-Canadian Workshop for Partnership Development Activities (PDA) between Canada and India on 'Photonic Sensor Technologies for Environmental Monitoring and Homeland Security' DRDO and SAMEER, Delhi, 1st – 2nd March, 2011.

'Sensor Network Development for Wildlife Tracking and Planetary Exploration', Workshop on Ubiquitous Computing (UbiComp), CDAC, Bengaluru, 26th February, 2011.

'Wireless Sensor Network and its Applications', Short Term Training Programme on 'Latest Wireless Technologies and Mobile Application Development', GEC, Bhavnagar and SSEC, Bhavnagar, 18th January, 2011.

'Lunar Seismic Sensor Network Design for Chandrayaan-II', Workshop on Sensor-Enabled Situational Awareness (SESA) in Conjunction with Twelfth International Conference on Distributed Computing and Networking (ICDCN), Bengaluru, 2nd January, 2011.

'Wireless Sensor Network and Wildlife Tracking', International Conference on Mobile Internet Devices, Hyderabad, 18th December, 2010.

'Challenges of Sensor Network Development for Wildlife Tracking and Planetary Exploration', Indo-US sponsored First International Workshop on Issues in Computing Over Emerging Mobile Networks (C-EMNs), Delhi, 31st October, 2010.

'Sensor Network Application to Planetary Exploration', Training Program for SAC, ISRO Staff, Nirma University, 24th September, 2010.

'Wildlife Tracking Using Wireless Sensor Networks', TEDxManipal, Manipal, 21st September, 2010.

Prof. Mehul S. Raval

'Signal Processing in Digital Watermarking', National Workshop on Digital Signal Processing and its Applications, S K Patel Institute of Management and Computer Studies, Kadi Sarva Vishwavidyalaya, Gandhinagar, 13th March, 2011.

'Signal Processing and Coding in Digital Image Forensics', National Conference on Signal Processing and Integrated Networks (SPIN), Amity University, Noida, 25th February, 2011.

'Forensics in Digital Images', H L Institute of Computer Application, Ahmedabad University, Ahmedabad, 19th October, 2010.

'Blind Steganalysis Using Machine Intelligence', Short Term Training Program on Soft Computing, LDRP, Kadi Sarva Vishwa Vidyalaya, Gandhinagar, 12th August, 2010.

Prof. S. C. Sahasrabudhe

'Quality Assurance in Education - India Model', One-day Workshop on NBA, College of Engineering and Technology, Amravati, 13th June, 2011.



'Nanubhai Amin Memorial Lecture: Factors in technology development', National Technology Day, Electrical Research and Development Association, Baroda, 11th May, 2011.

'Research Methodologies', Nirma University, Ahmedabad, 29th January, 2011.

'Recent trends in engineering', Guest of Honour and Key note speaker, International Conference on Intelligent Systems and Data Processing (ICISD), G H Patel College of Engineering and Technology, Nadiad, 24th – 25th January, 2011.

Prof. Girja Sharan

'Renewable Energy Applications', Adani Institute of Infrastructure Management, Ahmedabad, 24th May- 24th June, 2011.

'Use of Earth Tube Heat Exchangers for Animal Comfort (Cooling and Heating Dwellings) and Greenhouses for Growing Critical Vegetables and Fruits in Zoos', Kamala Nehru Zoological Garden, Ahmedabad, 10th December, 2010.

'Pick important problem (theoretical or empirical) solve it, look for user peer feedback if good, just do more of it, it is research', Keynote address, Doctoral Colloquium, IIM Indore, 4th May, 2011.

Prof. Sanjay Srivastava

'Sensor Networks Application and rotocol Design : Strategies for Social Networks'. First International Conference on Current Trends in Technology (NUICONE 2010), Nirma University, Ahmedabad, 9th – 11th December, 2010.

Prof. Tridip Suhrud

Winter School on Life and Thought of Gandhi, Indian Institute of Advanced Study (IIAS), Simla, 1st – 15th December, 2010.

Prof. Sunitha V.

Graph Theory and Algorithms for Parallel and Distributed Computing, Kalol Institute of Technology and Research Centre, Kalol, 28th April, 2011.

Prof. Aditya Tatu

'Introduction to Shape Analysis', Short Term Training Programe on 'Advanced Signal and Image Processing' Institute of Technology, Nirma University, Ahmedabad from 27th December, 2010 to 1st January, 2011.

'Metameric Class of Histogram of Gradient Orientation Features', Workshop on "Image Processing Applications in Computer Vision", G. H. Patel College of Enggearing and Technology, V. V. Nagar, 23rd October, 2010.

Prof. Mukesh Tiwari

"Long Time Coherence and the Generalized Master Equation Theory", Centre for Mathematical Modelling and Computer Simulation (C-MMACS), Bengaluru, 28th July, 2011.

Prof. Shiv Visvanathan

'Thinking about Evil', 'Philosophy for the Social Sciences and Humanities', Sixth Summer School, Manipal Center for Philosophy and Humanities (MCPH), Manipal University, Manipal, 12th July, 2011.

'Imagining the Holocaust', and 'The Career of Violence in India', Plenary Address, 'Philosophy for the Social Sciences and Humanities', Sixth Summer School, Manipal Center for Philosophy and Humanities (MCPH), Manipal University, Manipal, 11th July, 2011.



'Kitsch, Constitution, Exemplar: Global Flows, Global Development', Conference of the International Union of Anthropological and Ethnological Sciences (IUAES), The Australian Anthropological Society (AAS), and The Association of Social Anthropologists of Aoteorea/ New Zealand (ASANZ), University of Western Australia, Perth, 5th – 8th July, 2011.

'The Tacit Constitution: Gadamer Meets Korzybski', National Seminar, an 'Enigma of Health: Maladies and the Politics of Healing', IIT Gandhinagar, Ahmedabad, 25th – 26th March, 2011.

'Youth in question: A case of Absentee Sociology', NINASAM Forum, Hegudu, Karnataka, 8th October, 2010.

'Yours Truly a Human Rights Theory', Human Rights Forum (HRF), Narendranath Memorial Lecture, Hyderabad Press Club, Hyderabad, 28th August, 2010.

CONFERENCE/WORKSHOP SESSION CHAIR

Prof. Vijaykumar Chakka

IEEE National Conference on Knowledge Intelligence and Telematics (KITE), Mehasana, 11th – 12th March, 2011.

Signal Processing and Communication Track, First International Conference on Current Trends in Technology (NUICONE), Ahmedabad, 9th – 11th December, 2010.

Prof. Sanjeev Gupta

(Communication Track), International Conference on Information, Signal and Communication (ICISC), New Vallabh Vidyanagar, 5th – 6th February, 2011.

Prof. Radha M. Parikh

Annual International Conference on Infocomm Technologies in Competitive Strategies (ICT), Singapore, 25th – 26th October, 2010.

Prof. Hemant A. Patil

For Special Session on Speech, Audio, Video and Image Processing Using Artificial Intelligence, 4th Indian International Conference on Artificial Intelligence (IICAI), Tumkur, 14th – 16th December, 2011.

Prof. Mehul Raval

Electronics and Instrumentation Track of Research Fair-2011, Ahmedabad, 14th May, 2011.

National Conference on Knowledge Intelligence and Telematics (KITE), Ganpat University, Mehasana, 11th – 12th March, 2011.

IEEE Signal Processing Workshop, Nadiad, 27th September, 2010.

International Conference on Information, Signal and Communication (ICISC), New Vallabh Vidyanagar, 5th – 6th February, 2011.

2nd International Conference on Signals, Systems and Automation, (ICSSA), Vallabh Vidyanagar, 25th January, 2011.

Prof. Shiv Visvanathan

Panel Chair, "Critique of the Commons", International Society for the Commons Conference, Hyderabad, 10th – 14th January, 2011.



CONFERENCE PROGRAM COMMITTEE

Prof. Asim Banerjee

IEEE Sponsored National Conference on Knowledge Intelligence and Telematics (KITE), Mehasana, 11th – 12th March, 2011.

First International Conference on Current Trends in Technology (NUICONE), Ahmedabad, 9th -11th December, 2010.

Prof. Minal Bhise

Thirteenth International Conference on Enterprise Management System (ICEIS), Beijing, China, 8th -11th June, 2011.

Prof. Vijaykumar Chakka

International Conference on Computing, Communication, and Control (ICAC3), Mumbai, 28th – 29th January, 2011.

IEEE Third International Conference on Computer and Communication Technology, Allahabad, 17th – 19th September, 2010.

Prof. Sanjay Chaudhary

International Workshop on Identity: Security, Management and Applications (ID), Kochi, 22nd – 24th July, 2011.

Eighth IEEE 2010 International Conference on Services Computing (SCC), Washington DC, USA, 5th – 10th July, 2011.

International Conference on Communication Systems and Network Technologies (CSNT), Katra, Jammu, 3rd – 5th June, 2011.

ACM Compute 2011, Bengaluru, 25th – 26th March, 2011.

Thirteenth International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), Kolkata, 12th – 15th November, 2010.

Prof. Manik Lal Das

International Workshop on Identity - Security, Management and Applications (ID), Kochi, 22nd – 24th July, 2011.

International Workshop on Convergence Security in Pervasive Environments (IWCS), Loutraki, Greece, 28th – 30th June, 2011.

International Conference on Computing, Communication, and Control (ICAC3), Mumbai, 28th – 29th January, 2011.

Workshop on the Security of the Internet of Things (SecIoT), Tokyo, Japan, 29th November – 1st December, 2010.

Prof. Deepak Ghodgaonkar

International Conference and Workshop on Emerging Trends in Technology (ICWET), Mumbai, 25th – 26th February, 2011.

Prof. Sanjeev Gupta

Conference on Antenna Test and Measurement Society India (ATMS India), Ahmedabad, 9th – 11th February, 2011.



UGC International Conference on Communication and Computing Technologies (ICCCT), Jalandhar, 25th – 26th February, 2011.

Prof. Anish Mathuria

Sixth International Conference on Information Systems Security (ICISS), Gandhinagar, 15th – 19th December, 2010.

Prof. Hemant A. Patil

Workshop on Image and Speech Processing (WISP), IIIT Hyderabad, 16th December, 2010.

Prof. Prabhat Ranjan

IEEE International Conference on Communication Systems and Network Technologies (CSNT), Katra, Jammu, 3rd – 5th June, 2011.

Workshop on Sensor Enabled Situational Awareness (SESA), (In Conjunction with ICDCN), Bengaluru, 2nd January, 2011.

Prof. Mehul S. Raval

IEEE International Conference on Communication Systems and Network Technologies (CSNT), Gwalior, 3rd – 5th June, 2011.

National Conference on Recent Trends in Engineering and Technology (NCRTEET), Vallabh Vidyanagar, 13th – 14th May, 2011.



Dr. T.S. Kumbar receiving Best Librarian Award by MANLIBNET



Prof. Ganesh Devi receiving Linguapax Award 2011 for Safeguarding Language Diversity



International Conference on Innovative Science and Engineering Technology (IEISET), Rajkot, 8th -9th April, 2011.

IEEE Sponsored National Conference on Knowledge Intelligence and Telematics (KITE), Mehasana, 11th – 12th March, 2011.

International Conference on Information, Signal and Communication (ICISC), New Vallabh Vidyanaagar, 5th – 6th February, 2011.

International Conference on Computer and Communication Technology (ICCT), Allahabad, 17th – 19th September, 2010.

Prof. Prasenjit Majumder

34th Annual ACM SIGIR Conference (SIGIR), Beijing, China, 24th -28th July, 2011.

Conference on Multilingual and Multimodal Information Access Evaluation (CLEF), Amsterdam, 19th – 22nd September, 2011.

Prof. Mazad S. Zaveri

International Conference on Advances in Computing, Communication and Control (ICAC3), Mumbai, 28th – 29th January, 2011.



Prof. S.C. Sahasrabudhe receiving Dewang Mehta Award for Outstanding Contribution to Education



Prof. S. Chatterji receiving the ABP News National B-School Award for Outstanding Engineering Institute (West) at Taj Lands End, Bandra, Mumbai



STUDENTS: ACTIVITIES AND ACHIEVEMENTS

Extra- and co-curricular activities form an important component of student life at DA-IICT. As in the past, the campus continued to be a vibrant and lively place, with sports, cultural and other activities happening throughout the year. Students also distinguished themselves in a diversity of international and national level competitions, and won several prizes, or made it to the finalist teams, and made the name of DA-IICT more prominent among the top engineering institutions in the country.

Synapse-2011

Synapse, the annual Techno-Cultural Festival of DA-IICT, was organized in last weekend of February 2011. Synapse-2011 proved to be the biggest student event held in the history of the Institute. To kick off 'Synapse', 8 km and 5 km Youth Run were organized on 20th February, 2011 which witnessed over 900 participants running together to support various causes the student community has endeavored to make a difference in. NGOs, schools, other institutes and faculty members joined hands together to participate in the initiative. The events at Synapse were designed to inspire solutions in which technology, culture, humanitarianism, and viability symbiotically coexist. With systematic and generous support from the corporate community and overwhelming participation of students from all over India, it can definitely be said that the festival was successful as cooperation, involvement, publicity, sponsorship, innovation, creativity, fusion, rhythm, aesthetics, fun and frolic, drama and fashion were all at their peak during Synapse-2011. The plethora of technical and cultural events that Synapse-2011 showcased enthralled audiences of all kinds – from those interested in the arts, to the geeks who only enjoy life in front of a computer screen.

Sports

Sports activities during the year saw a significant increase, with the highlights being the hosting of tournaments with other institutes, a wider variety of activities and competitions involving many more students than earlier years, and events that involved faculty, staff and students. An 8X Cricket match was played between the faculty and student teams on 26th January, 2011. An Annual Inter-college Sports Festival "Concours 2010" was also held at DA-IICT.

Cultural

The cultural committee continued its tradition of organizing highly successful and highly attended cultural events on the campus. It aims to bring out talent in the student community in all possible forms whether it is music, dance, theatre, literary skills, sketching or other fine art styles. In order to showcase these talents various competitions like 'Sangeet Sandhya', 'Dance Nite', 'Drama Nite', 'Rangoli', 'Hasya-Kavi Sammelan' were calendared throughout the year.

Various festivals and National festivals like Independence Day, Gandhi Jayanti and Republic Day were also celebrated. The Cultural Committee along with the Sambhav Committee visited the blind people at the BPA (Blind Peoples' Association) and spent a joyful day with the special people, and thus marked the end of Independence Day on a satisfying note. On Gandhi Jayanti, poetry recitation and a debate on the relevance of Gandhian values in contemporary India were followed by a quiz where participants were made to strain their brain cells and recall those facts about Gandhi that they had read in their school history textbooks.

To enrich the students with various hobbies such as in theatre, dance, instrumental and vocal music and art etc, workshops were conducted which act as a platform nurturing budding talent. 'Friday



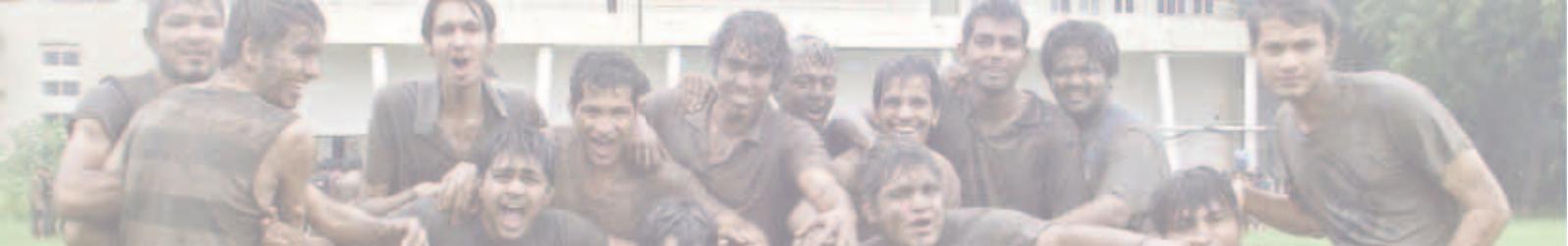
Night Live', an initiative of the music club in DA-IICT was introduced to encourage the students and provide them with a platform to showcase their talent. 'Maniere - the night of fashion' was and remains to be the most anticipated event. Students from all the batches are given an opportunity to bring forth their creative and aesthetic skills when they were subjected to design their costumes on the basis of a particular theme. The theme of this year was 'Gangster' which brought out the hitherto unknown side of each participant's persona. The musical talent of the students of the Institute was at its best during the much awaited event 'Raaga'. The musicians proved their mettle against the rest when many prizes were won in the categories of Indian Solo, Indian Group, Western Solo and Western Group. An important addition was the category of 'Bollyrock' which became the highlight of the show. In another event 'RangManch', the scriptwriters and the dramatists put on their thinking caps and presented wonderful and colourful plays depicting various aspects of India's social and cultural heritage.

In addition, there were celebrity shows which added colour to student's life on campus. DA-IICT in collaboration with SPICMACAY hosted an instrumental event 'Santoor Concert' by Padmavibhushan Satish Vyasji, a renowned Santoor Maestro of India. The event was a huge success and everyone relished the classical music.

Student Clubs

Student Clubs at DA-IICT campus are the medium to channel the bubbling creativity and enormous potential of students. All club activities are for the students, by the students and of the students. Some of the clubs that exist currently in DA-IICT include the Film Club, DA-IICT Theatre Group (DTG), Prayaas, Sambhav, The Press Club, Forward Forum, Quiz Club, Martial Arts Club, Dance Club, Debate Club. While film club provides regular entertainment to DA-IICTians in the form of screening of popular cinema, the DTG has been motivated by the Budhan Theatre Group of Ahmedabad and is focused on producing prosceniums and street plays. Prayaas has been set up with the vision of 'personal transformation through outreach activities'. It is involved in community service in the form of caring about people with disabilities and other problems. Sambhav is another social service group that is involved in education and rehabilitation of displaced and de-notified tribal people in the Ahmedabad area. The Press Club brings out an e-magazine called Entelechy, with sections ranging from global news, to DA-IICT news, to movie, book and music reviews, to poetry, technical articles and debates. Forward Forum organises lectures and other activities by eminent national and international personalities on campus. Quiz Club organizes regular quiz events on campus, and encourages students to participate in various quiz competitions around the country. Martial Arts Club has regular martial arts and yoga classes. Dance Club - the Dance Coders tries its best to combine the deep-seated passion for the art with dedication and teamwork. The Debate Club has grown remarkably since its inception in 2009. Besides conducting its weekly debates and Intra-college Debate competitions, the Club has also organised a Youth Parliament and an Inter-college Parliamentary Debate.

Apart from these non-academic and social activity clubs, a few groups sound serious academic. Electronics Hobby Center (EHC), DA-IICT Linux Users Group (DLUG) and IEEE (Institute of Electrical and Electronics Engineers) Student Branch belong to this category. EHC is a place for playing with electronic circuits and instruments out-of-the-classroom. DLUG has been committed to actively promote the use of Linux and other open source software for strengthening the objective of the



worldwide open source movement. IEEE Student Branch provides opportunities to the students to gain relevant knowledge and learn technical skills through experts of ICT and related areas.

Various other student clubs were active during the year and organized their own events for student groups ranging from a few dozens to a few hundreds. Notable among these Clubs were The Aryans and The Programming Club. DA-IICT has a recognized Band, which is named as 'The Faculty'.

STUDENT ACHIEVEMENTS

Awards

Gitam Shikkenawis was awarded Google Indian Women in Engineering Award 2011.

Women in Engineering (WIE) wing of the IEEE Student Branch at DA-IICT won the first place as the 2010 IEEE WIE Affinity Group of the Year Award for the Asia-Pacific Region.

Milind Shah, PhD Scholar was awarded INSPIRE fellowship of the DST, Govt. of India, New Delhi.

Khaja Ahmad Shaik, PhD Scholar was awarded TCS Research Fellowship.

Vivek Goswami was awarded Visiting Students' Research Program (VSRP 2010) Scholarship by School of Technology and Computer Science, Tata Institute of Fundamental Research (TIFR), Mumbai.

Yash Soni was selected for USID Gurukul conducted by USID Foundation (India) at IIT Kanpur from 26th August to 4th September, 2011.

Akash Kamthan, a student of MDes 2009 batch, has received Best Student Documentary Award for "Dekha Andheki: Kaal Aur Kala" on the block printers of Sanganer; the documentary has been selected for screening at the 8th Jeevika: Asia Livelihood Documentary Film Festival 2011, organized by the Centre for Civil Society, New Delhi.

Sports and Cultural Achievements

The Girls Badminton team and Boys Lawn Tennis Team won the Silver medal (second position) at Udghosh-2010, IIT-Kanpur's Sports Fest held in September 2010.

The Chess team won the third position at Spree-2010, BITS Goa Sports Festival, which witnessed players of international standards. This team also topped the ladder at Annual Sports Fest of PDPU, Gandhinagar and stood first at Concours-2010, DA-IICT Sports Fest.

The Institute teams were champions in Badminton (Boys), TT (Girls), Basket Ball (Boys and Girls) and got second place in Volleyball, Football, Cricket and TT (Boys) at Concours-2010, DA-IICT Sports Fest.

IIM-A Chaos, I.P.T.G. Flare and Synapse saw DA-IICT bagging all top prizes in Western and Indian music and to top it all up, DA-IICT even won the first prizes in the Instrumental Music contest also.



Two of the four bands that qualified for the zonal finals, amidst 20 bands from all over Gujarat at “Zee Aspire – Music to Money Challenge”, 2010, were from DA-IICT. “The Faculty” went on to bag top spot in Gujarat and proceeded for the final round in Delhi. It was represented by the students Aniket Roy, Shiroy Mehta, Ronit Galani, Aditya Gudsoorkar and Nishant Jain. The reality show was aired on television and judged by Lokesh Madan, Hitesh Madan and Benjamin Pinto, members of the popular band “Eka”. The Hindi band “Malhar” was represented by the students Viplov Jalan, Malhar Shah, Vishal Shah, Rahul Gupta and Aditya Gudsoorkar.

“The Faculty” band headlined NIFT’s Rock show, with a 2-hour performance, at NIFT cultural fest. It was judged the “best rock band, Gujarat” in Final West-Zone Round by ZEE TV Program. This Band was also short-listed for ICC World Cup Peace Music Album, included among top 5 bands from West India.

The ‘Sufi’ band and classically trained vocalists of DA-IICT bagged prizes at IIT Kanpur.

Aniket Roy won “Best Instrumental” category while Nishant Jain won 2nd spot in “Best Vocal Performance” at PDP’s cultural fest, Flare 2010.

Nishant Jain won 2nd spot in “Western Vocals” category at IIM Ahmedabad’s cultural fest, Chaos 2010 while Malhar Shah (BTech 2nd Year student) won 3rd spot in “Best Instrumental” category at the same event.

Namrata Kundu won 2nd spot in “Classical Vocals” category at IIT Kanpur’s cultural fest, Antaragni 2010.

The Street Play, ‘Manmaani’, by DA-IICT Theatre Group won 1st Prize in Annual Cultural Festival (2011) of Institute of Technology, Nirma University. It has been able to move the audience by its comic ways to address very serious issues and problems prevailing in our society.

Dance Coders won 1st prize in Inter College Dance Fest 2010 organized by PDP and 2nd prize in Synapse 2010.

Other Achievements

Vivek Goswami and Rachit Mittal were invited as Guests of Honour of the Honourable Prime Minister of India by the MHRD to witness the Republic Day Parade 2011 from Prime Minister’s box at Rajpath, New Delhi.

Vivek Goswami was selected to attend the 2011 Summer School on Security and Privacy, Microsoft Research India, Bengaluru from 18th to 30th June 2011. He was also an invited reviewer for Software Quality Journal published by Springer.

Parth C. Mehta, Poojan Shah, Vedang Patel, Pavas Kant, Darsh Shah, Maullik Padia, Naman Mulay, Kedar Bhatt, Shirali Desai, Hetaswi Vankani and Mohit Kothari (BTech 3rd year students) were invited to interact with the Former President Dr. A P J Abdul Kalam during ‘IGNITE 2010 Award Function’ held at IIM Ahmedabad in December 2010. These students were working with National Innovation Foundation for developing workable prototypes based on innovative ideas.



Internships

Kishan Patel was awarded sponsored internship at Carnegie Mellon University in May-July 2010. He worked on the project playpower (playpower.org) on HCI (Human Computer Interaction) aspect of Computer Science under Professors Matthew Kam and Derek Lomas.

Aditya Bhatt, Aakriti Gupta, Parth Gupta, Swair Shah, Viranch Mehta and Siddharth Kothari were awarded the prestigious Google Summer of Code (GSoc) Internship from 25th May to 22nd August, 2011.





ALUMNI ACTIVITIES

As part of its ongoing commitment to reach, engage and connect to its graduates, the DA-IICT Alumni Association organised the first Alumni Day at the Institute campus on the 19th December 2010. The day began with a panel discussion on “DA-IICT and Alumni: Prospects and Expectations.” Panelists included the Director, Prof. S. C. Sahasrabudhe, Prof. Sanjay Srivastava, Prof. Aditya Tatu, Mr. Ashish Kumar (BTech 2002), Mr. Shagun Garg (BTech 2005) and Mr. Jayesh Gumber (BTech 2006). The discussions were moderated by Prof. Asim Banerjee.

A meeting was also held to finalize the structure of the Alumni Association and the organization of its various regional chapters.

Representatives were identified for four cities: Mr. Gunjan Juyal (Mumbai), Mr. Pushpak Aggarwal (Bengaluru), Mr. Pawan Makadia (Ahmedabad) and Mr. Ashish Kumar (Hyderabad). Each of them took the initiative to start the Association’s activities in their respective cities. Subsequently meetings were held in Hyderabad on 30th January, on 5th June in New Delhi on 30th January and in Mumbai on 5th March, 2011.

The Alumni day celebrations concluded with a group photograph, planting of saplings and a Quiz organised by the Quiz Club where the alumni participated with a lot of enthusiasm.





RESOURCE CENTRE

The Resource Centre (RC), being a major information service unit, continued to expand its collection, both in print and in digital form, and design and deliver innovative services in support of teaching, learning, research and scholarly activities of the Institute. With its pro-active approach, the RC strives to make the best use of latest information technologies to disseminate information to its end users. Some of the significant activities and services carried out during the year of this report are reported here.

Print and Audio Visual Collection

The RC collection includes books, conference proceedings, reference books, CDs, VCDs, DVDs etc. Table 10 presents the additions during the academic year 2010-11.

Table 10: Additions to Collection

Collection Type	Added in 2010-11	Total as on 31 July 2011
Books	1218	26150
Bound Volumes of Journals	150	1668
Theses and Dissertations	41	280
Audio Visual Resources	107	3416
Total Collection	1512	31514

In addition to renewing the subscription to existing 202 current journals in print, six more new journals in the emerging areas of research were added to meet the requirements of faculty members. Out of 107 audio visual resources added during the year, 16 were IEEE Communication Society Tutorials on CD.

Digital Resources

The following 12 digital resources subscribed during previous years, being core collection to support institutes academic and research work were renewed for 2011.

- ACM Digital Library
- ASA Digital Library
- AIP and APS Online Journals
- ASABE Technical Library
- IEL Online Library (IEEEExplore)
- indiastat.com
- JSTOR Archive
- LNCS Online Collection
- ITU Recommendations
- Publications from USENIX
- ScienceDirect (Comp. Sc.)
- Springer Online Journals

In all, RC subscribed to over 5000 e-journals during the year.



Circulation Services

During 2010-11, over 23,000 documents were issued to users. These documents included books, reference books, current and bound volumes of journals and audio - visual materials and were mainly circulated among the faculty, students and staff members of the Institute.

Resource Sharing

The Resource Centre has been taking an active part in resource sharing activities with local libraries and the libraries at the national level through ADINET and INFLIBNET library networks. During the reporting period, the RC borrowed 30 books and lent three books. It also received 207 and delivered 213 research papers.

To further support the academic and research activity, RC became a member of Development Library Network (DELNET). This membership entitles an access to all the databases created by this network, Inter Library Loan and Document Delivery Services.

Institutional Membership

The RC renewed the membership of 12 professional bodies, institutions and consortia and availed the benefits of participation in professional programs and access to various online resources offered by these bodies. The RC is a member of Ahmedabad Library Network (ADINET), American Society of Agricultural and Biological Engineers (ASABE), Computer Society of India, Indian National Digital Library in Engineering Science and Technology Consortium (INDEST), International Telecommunication Union (ITU), UGC-Infonet Digital Library Consortium, USENIX: The Advanced Computing Systems Association, among others.

Project Reports

The RC has been maintaining a collection of all PhD theses, MTech dissertations and MDes Projects (both print and digital formats). Efforts are being made to collect, organize and provide access to all the BTech project reports of the last four batches. These reports are now available in both print and digital form for consultation. A separate batch-wise catalogue providing details of each project along with an abstract is now available on the Internet through RC website.

From the current year academic year, RC started collecting Project Reports submitted as a part of MSc ICTARD Program. Like all other reports, these are also available both in print and digital form and are catalogues with other resources.

Research Information

To promote and support the Institute's research undertakings, RC continued to put its concerted efforts in tracking and providing updated information relating to "Call for Research Proposals" and "Research Funding Sources". The faculty and researchers have found this service useful in identifying potential projects for funding.

Access to Special Lectures

During reporting period, the RC continued its efforts to collect, organize and provide access to the information relating to all special lectures held in the Institute. These include a collection of Power Point presentations and video recordings of 11 lectures delivered by prominent persons. The list



with links to presentations and video recordings where possible, is now made available through RC website.

Preview Room Facility

The RC has a preview room with all required facilities to view in group the education materials in support of teaching and learning. This facility is used by both students and faculty members. Over 100 group viewings were arranged during the year.

Reference and Information Services

To promote the effective use of available resources, the RC continued all the information services introduced in the previous years with updated information. These services were well received by student community. A new service i.e., 'Book of the Day' was introduced during the year to create awareness about interesting books available in the RC collection and thereby promote reading habits among students. Also, 11 new bibliographies were compiled on different subjects to promote the use of collection.

Digital Repository of Scholarly Resources (DRSR)

The DRSR was launched on a pilot basis, to collect, organize, preserve, provide access to, and promote dissemination of the scholarly output of DA-IICT Community. This serves as a platform to faculty, researchers, students and staff members of the Institute to share their research work with wider community. Currently it hosts close to 900 resources.

New Infrastructure

The following infrastructure was added during the year.

- A new high end server with 3 TB hard disk capacity to host video lectures.
- A Pi E-Book reader from 'infibeam' to use e-books.
- Two servers and twenty two desktops have been upgraded with higher memory and hard disk capacity.





- NPTEL Video courses on three hard disks, and an external hard disk drive to take backup of the data.
- 18 single/double sided book racks for shelving bound volumes of journals and 65 chairs for use in the preview room.

Orientation and Information Literacy Programs

A detailed orientation program to introduce the new entrants to various programs with the RC collection, facilities and services was held from 20th - 22nd July, 2011. The sessions were conducted in eight batches of 90 minutes each.

Internship

As part of its regular Internship program for fresh library science graduates, the RC recruited three MLISc graduates in August 2010 for one year and offered monthly stipend. These fresh graduates were given training in all areas of work including handling of digital resources.

Staff Training

For efficient delivery of services, domain-centric staff training is needed to upgrade their knowledge and skills. During 2010-11, the following staff members attended the workshops/seminars.

- B. Suresh attended a three day “INDEST-AICTE Workshop and 8th Annual Meet” at Indian Institute of Technology Madras (IITM), Chennai from 18th to 20th February 2011.
- T. S. Kumbar, B. Suresh, Prasanna Kumar, Saurabh K. Prajapati, A. Rajakumar attended one day seminar on “Preparing New Generation Librarian for Meeting Future Challenges” organized by Ahmedabad Library Network (ADINET) and Ahmedabad Management Association (AMA), Ahmedabad, 9th August, 2010.





INFRASTRUCTURE

INFRASTRUCTURE

DA-IICT has a modern, eco-friendly, fully networked campus with optical fibre cable connectivity between buildings. It has state-of-the-art IT infrastructure and computing and communication resources. The campus has three air-cooled lecture theatres, two with a seating capacity of more than 300 and one with a seating capacity of about 250, with modern audio and video presentation systems. The classrooms and tutorial rooms are equipped with latest audio-visual aids and have internet connectivity. The laboratory building houses state-of-the-art teaching and research laboratories for electronics, communications, computers and networks. More than 1000 computers are installed in these laboratories for student use.

The Faculty Building Complex consists of four faculty blocks, each with 18 faculty rooms and additional rooms for support staff and meetings. The Administrative Block houses the offices of the Director, the Registrar and other support services. The Sports and Cultural Complex has facilities for outdoor sports, such as cricket, football, hockey, basketball, volleyball, as well as indoor games like badminton, table tennis, chess and carom. It also has a gymnasium and a music room. Utilities and services such as cafeteria, food courts, ATM, medical centre, campus shop, telephone kiosk, reprography facility, sports and cultural complex, open-air theatre are all located within the campus.

There are two Halls of Residence, one for men and the other for women. The men's hall has eight wings with a total capacity of 900 seats on twin sharing basis. The women's hall has two wings with a total capacity of 200 residents. Internet facility has been provided in the hostel rooms.

Development of ICT as well as physical infrastructure is a continuous process at DA-IICT. In the year 2010-11, the Institute added ICT resources worth ₹94.00 lakhs. The major ICT and laboratory enhancements during the past year include the following:

- Expansion of internet bandwidth, available capacity being 1 GBPS via BSNL (at a cost of ₹50 lakhs)
- Microprocessor based trainer kits with SMPS (50 nos.)
- DLP projectors (7 nos.)
- Matlab 7.0 software (50 nos.)
- IGIS Professional software

In terms of physical infrastructure, a major project completed during the year was the construction of a random-rubble stone-masonry compound wall to replace the previous chain fencing boundary. The total length of this compound/boundary wall covering the entire campus is 1870 meters with a height of 8 feet, with barbed wire fencing above the masonry.

A photograph of a pink flower in the foreground with a bright sun flare in the background over a grassy field and trees.

ANNEXURES



ANNEXURE 1

MANAGEMENT

Academic Council

- | | | |
|----|--|---|
| 1 | Prof. S. C. Sahasrabudhe , Chairman | Director, DA-IICT, Gandhinagar |
| 2 | Shri. Suresh Rangachar , President | Reliance Communications Limited Mumbai |
| 3 | Prof. Surendra Prasad | Director, Indian Institute of Technology New Delhi |
| 4 | Dr. R. R. Navalgund | Director, Space Application Centre (ISRO) Ahmedabad |
| 5 | Shri. K. Narayan | Reliance Group, Mumbai |
| 6 | Prof. Samaresh Chatterji | Dean (Academic Programs) DA-IICT |
| 7 | Prof. V. P. Sinha | Professor, DA-IICT |
| 8 | Prof. Ganesh Devy | Professor, DA-IICT |
| 9 | Prof. Ashok Amin | Professor, DA-IICT |
| 10 | Shri. P. K. Chopra , Secretary | Executive Registrar, DA-IICT |

Finance Committee

- | | | |
|---|--|------------------------------------|
| 1 | Prof. S. C. Sahasrabudhe , Chairman | Director, DA-IICT |
| 2 | Shri. K. Narayan | Reliance Group |
| 3 | Shri. Surendra Pipara | Reliance Communication Limited |
| 4 | Prof. Samaresh Chatterji | Dean, (Academic Programs), DA-IICT |
| 5 | Shri. P. K. Chopra , Secretary | Executive Registrar, DA-IICT |

Institute Officials

Director

Prof. S. C. Sahasrabudhe

Deans

Prof. Samaresh Chatterji (till 10th May, 2011)
Prof. Sanjay Chaudhary (from 11th May, 2011)

Research and Development

Prof Anish Mathuria

Students

Prof Manjunath Joshi (till July 2011)
Prof. Sanjeev Gupta (from August 2011)

Executive Registrar

Shri. P.K. Chopra (On leave from March 2011)
Prof. Samaresh Chatterji (Officiating)

Librarian

Dr. T. S. Kumbar



Standing Committees at DA-IICT (for the Academic Year 2010-11)

Undergraduate Committee (UGC)

Prof. Suman K. Mitra	Convener
Prof. Chetan Parikh	Member
Prof. Madhumita Mazumdar	Member
Prof. Maniklal Das	Member
Prof. Anil Roy	Member

Placement Committee

Prof. Asim Banerjee	Convener
Prof. Manish Gupta	Member
Prof. Prabhat Ranjan	Member
Prof. V. Sunitha	Member

Postgraduate Committee (PGC)

Prof. Sanjay Srivastava	Convener
Prof. B. N. Hiremath	Member and Program Coordinator – MSc (ICTARD)
Prof. Deepak K. Ghodgaonkar	Member and Program Coordinator - MTech
Prof. Hemant Patil	Member and Program Coordinator - PhD
Prof. Mehul Raval	Member and Program Coordinator – MSc (IT)

Disciplinary Committee

Dean - Students	Convener ex officio)
Warden, Gents Hostel	(ex officio)
Warden, Ladies Hostel	(ex officio)
Executive Registrar	(ex officio)
Student Members	(nominated)

Resource Centre Committee (RCC)

Prof. C. Vijaykumar	Convener
Prof. Gautam Dutta	Member
Prof. Chetan Parikh	Member
Prof. Tridip Suhrud	Member
Dr. T. S. Kumbar	Member Secretary

Gender Cell

Prof. Radha Parikh	Convener
Ms. Geeta Mehta	Member
Prof. Shiv Visvanathan	Member
Dr. Neeta Shah	External Member
(Director, Gujarat Infomatics) - Student Members	(nominated)

ICT Committee

Prof. Rahul Dubey	Convener
Prof. Sanjay Chaudhary	Member
Prof. Sanjeev Gupta	Member
Mr. Rajendra Shah	Member

Alumni Board

Prof. Vishvajit Pandya	Convener
Prof. Minal Bhise	Member

Web Committee

Prof. Anil Roy	Convener
Prof. Manish Gupta	Member
Mr. Abhinay Pandya	Member

Student Activities Council

Dean – Students	Convener (ex officio)
Prof. Binita Desai	Sports Councilor
Prof. Madhumita Mazumdar	Cultural Councilor



ANNEXURE 2

THESES, PROJECTS AND REPORTS

PhD Theses (Submitted)

1. Bombale, Uttam Laxmanrao. Broadband microstrip antennas with switchable polarizations; xxiv, 149 p.; 2010. (Supervisor: Gupta, Sanjeev).
2. Gandhi, Ratnik. Algebraic approach to nash equilibria for finite normal form games; xiv, 119 p.; 2011. (Supervisor: Chatterji, Samaresh).
3. Guntuku, Dileepkumar. Micro-level drought preparedness with information management and rural knowledge centres: a framework to support rural farm families; xiv, 189 p.; 2010. (Supervisors: Chaudhary, Sanjay and Balaji, V.).
4. Jardosh, Sunil. CLAPDAWN: cross layer architecture for protocol design in a wireless network; xiv, 194 p.; 2011. (Supervisor: Ranjan, Prabhat).

MTech Theses

Communication Systems

1. Dave, Vidhi. Shallow parsing of Gujarati text; viii, 34 p.; 2011. (Supervisor: Pandya, Abhinay).
2. Doshi, Savankumar. Pulse shaping for linear time varying channels; viii, 31 p.; 2011. (Supervisor: Chakka, Vijaykumar).
3. Madhavi, Maulik C. Person recognition from their hum; xiv, 99 p.; 2011. (Supervisor: Patil, Hemant).
4. Mavani, Kausha. Low noise amplifier design at 2 GHz; ix, 33 p.; 2011. (Supervisor: Gupta, Sanjeev).
5. Monga, Jasneet Kaur. Traffic profile measurement and traffic driven network reconfiguration; x, 72 p.; 2011. (Supervisor: Srivastava, Sanjay).
6. Rai, Karishma K. Dual-band and shorted microstrip patch antenna design for communication system applications; 68 p.; 2011. (Supervisor: Gupta, Sanjeev).
7. Ranipa, Keyur R. Practical approach for depth estimation and image restoration using defocus cue; viii, 44 p.; 2011. (Supervisor: Joshi, M. V.).
8. Roy, Santanu. Design of metamaterial; x, 30 p.; 2011. (Supervisor: Ghodgaonkar, Deepak).

Computer Network Systems

1. Bhatt, Shreyansh. Migration of database from one cloud to other clouds; viii, 47 p.; 2011. (Supervisors: Chaudhary, Sanjay and Bhise, Minal).
2. Chauhan, Tejas. Service level agreement parameter matching in cloud computing; ix, 35 p.; 2011. (Supervisors: Chaudhary, Sanjay and Bhise, Minal).
3. Hemnani, Deepak Manohar. Generalized data extraction protocol for habitat monitoring applications in WSNs; 47 p.; 2011. (Supervisors: Srivastava, Sanjay and Ranjan, Prabhat).
4. Jain, Poonam. Effect of location inaccuracy on deterministic coverage and connectivity protocol in wireless sensor network; x, 62 p.; 2011. (Supervisors: Srivastava, Sanjay and Sunitha, V.).
5. Jain, Vikas Kumar. Mobility models and its application in ad-hoc network; ix, 47 p.; 2011. (Supervisors: Srivastava, Sanjay and Mulherkar, Jaideep).

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6. Maheshwari, Mayur. Secure data delivery in mobile ad-hoc network using multiple paths; xi, 56 p.; 2011. (Supervisor: Das, Manik Lal).
 7. Sati, Mohit. Analysis of address allocation protocols for mobile ad-hoc networks; 73 p.; 2011. (Supervisors: Srivastava, Sanjay and Divakaran, Srikrishnan).
 8. Patel, Mehul. Service integration on social network; ix, 54 p.; 2011. (Supervisors: Chaudhary, Sanjay and Bhise, Minal).
 9. Patel, Nidhi. Packet forwarding strategies for cooperation enforcement in mobile wireless ad-hoc networks; x, 50 p.; 2011. (Supervisors: Srivastava, Sanjay and Muthu, Rahul).
 10. Singh, Rohit Kumar. SPARQL query optimization; ix, 64 p.; 2011. (Supervisor: Chaudhary, Sanjay).
 11. Singh, Saurabh. Wireless LAN 802.11 security using elliptic curve cryptography; ix, 44 p.; 2011. (Supervisor: Das, Manik Lal).
 12. Teja, V. Krishna. Acyclic edge coloring of complete r-partite graphs; iv, 45 p.; 2011. (Supervisor: Muthu, Rahul).
 13. Vora, Dhairya. Policy based resource allocation on infrastructure as a service cloud; xi, 54 p.; 2011. (Supervisors: Chaudhary, Sanjay and Bhise, Minal).

Machine Intelligence

1. Bhimani, Amitkumar H. Super-resolution of hyperspectral images; 35 p.; 2011. (Supervisor: Joshi, M. V.).
2. Dave, Mainak. Part of speech tagging for Gujarati text; viii, 44 p.; 2011. (Supervisor: Pandya, Abhinay).
3. Gupta, Parth. Learning to rank: using Bayesian networks; viii, 39 p.; 2011. (Supervisor: Majumder, Prasenjit).
4. Juneja, Sandeep. Collusion resistant fingerprinting; viii, 36 p.; 2011. (Supervisor: Raval, Mehul S.).
5. Kumari, Sonal. Human action recognition in video; ix, 39 p.; 2011. (Supervisor: Mitra, Suman K.).
6. Marvaniya, Hitul D. Development of difference detection algorithm for surveillance video compression; viii, 30 p.; 2011. (Supervisor: Banerjee, Asim).
7. Mundra, Anil Kumar. Prolog based approach to reasoning about dynamic hierarchical key assignment schemes; x, 81 p.; 2011. (Supervisor: Mathuria, Anish M.).
8. Parmar, Chintan. Automatic image inpainting for the facial images of monuments; viii, 31 p.; 2011. (Supervisor: Joshi, M. V.).
9. Rao, Sameer. Plagiarism detection; vii, 29 p.; 2011. (Supervisor: Majumder, Prasenjit.).
10. Sethi, Ankit Kumar. Performance evaluation of kerberos cross-realm authentication using SIMNET; x, 43 p.; 2011. (Supervisor: Mathuria, Anish M.).
11. Sharma, Harish. Back-view based visual hand gesture recognition system; vii, 37 p.; 2011. (Supervisor: Banerjee, Asim).
12. Sharma, Monika. Image ranking based on clustering; vi, 29 p.; 2011. (Supervisor: Mitra, Suman K.).



VLSI and Embedded Systems

1. Aggarwal, Munish. Single ended sense amplifier for DRAM; 43 p.; 2011. (Supervisor: Nagchoudhuri, Dipankar).
2. Borkar, Abhishek. Optical wireless sensor network design for a conducting chamber; x, 44 p.; 2011. (Supervisor: Ranjan, Prabhat).
3. Buddhbhatti, Dixit K. Hardware implementation of multiband and multimode modem for software defined radio/ cognitive radio; xii, 84 p.; 2011. (Supervisor: Dubey, Rahul).
4. Chaora, Ankeet. Design and layout of single bit per stage pipelined ADC; x, 45 p.; 2011. (Supervisor: Sen, Subhajit).
5. Chevella, Subhash. Capacitor mismatch in switched capacitor circuits, techniques to minimize mismatch; viii, 32 p.; 2011. (Supervisor: Parikh, Chetan D.).
6. Goswami, Parth A. Speaker recognition over VoIP network; xiii, 73 p.; 2011. (Supervisor: Patil, Hemant).
7. Kapasi, Jay. Power management of wireless sensor node by dynamic power measurement; xvi, 76 p.; 2011. (Supervisor: Ranjan, Prabhat).
8. Patel, Vidyut A. Asynchronous analog to digital converter; 40 p.; 2011. (Supervisor: Parikh, Chetan D.).
9. Aguduri, Nagamanoj Kumar. Low-power multi-ported register file for digital signal processors; 54 p.; 2011. (Supervisor: Nagchoudhuri, Dipankar).

MDes Project Reports

1. Agrawal, Anshul. I am my language; 49 p.; 2011. (Supervisor: Devy, Ganesh).
2. Kamthan, Akash. Dekha andekhi : kaal aur kala; 43 p.; 2011. (Supervisor: Mazumdar, Madhumita).
3. Lonhare, Vinish Kumar. Kavya ki parchhai : Pandavani; 23 p.; 2011. (Supervisor: Mazumdar, Madhumita).
4. Sharma, Kartikeya. I believe; 41 p.; 2011. (Supervisor: Devy, Ganesh).
5. Singh, Ankita. Gondi art : music on canvas; 31 p.; 2011. (Supervisor: Raje, Nitin).

MSc ICTARD Project Reports

1. Singh, Mridula. Comparative study of single date (LISS-III) and multi-date (AWiFS) satellite data for pre-harvest mustard and wheat crop production forecasting; v, 39 p.; 2011. (Supervisors: Ghosh, Ranendu and Bairagi, G. D.).
2. Chand, Naveen. Evaluation of mid-day meal (MDM) scheme in western and north-east regions of Gujarat; 41 p.; 2011. (Supervisors: Hiremath, B. N. and Sinha, Vikash).
3. Sharma, Hemant and Patidar, Nilesh. Study of existing farming system of small and marginal farmers of watershed project area and its scope for improvement; 37 p.; 2011. (Supervisors: Ghosh, Ranendu and Menon, Binoy).
4. Patidar, Nilesh and Sharma, Hemant. Study of existing farming system of small and marginal farmers of watershed project area and its scope for improvement; 37 p.; 2011. (Supervisors: Ghosh, Ranendu and Menon, Binoy).



5. Kashyap, Thakar. Comparative study of single date (LISS-III) and multi-date (AWiFS) satellite data for pre-harvest wheat crop production forecasting of Vidisha district, Madhya Pradesh, India; 54 p.; 2011. (Supervisors: Ghosh, Ranendu and Sharma, Rajesh).
6. Patel, Roshan B. Market research for banana crop and development of multimedia system on package of practices for banana cultivating farmers; 27 p.; 2011. (Supervisors: Chaudhary, Sanjay and Jain, Vikash).
7. Shyam, Wanjari Kunal. Evaluation of mid-day meal (MDM) scheme in Junagadh region of Gujarat; 23 p.; 2011. (Supervisors: Hiremath, B. N. and Sinha, Vikash).
8. Sahu, Anil Kumar. Review of literature study on information and communication technology initiatives in Indian agriculture; 79 p.; 2011. (Supervisors: Sharan, Girja; Jhunjhunwala, Ashok; Prashant, Suma and Ganesan, M.).
9. Prabhakar, Prabudh Kishor. Study market positioning and market potential of Bollgard cotton seed in Gujarat; 28 p.; 2011. (Supervisors: Parikh, Alka and Ahuja, Nishant).
10. Kumar, Abhay and Prasad, Manoj Kumar. Video documentation of success story of watershed development project, Gujarat; 34 p.; 2011. (Supervisors: Sharan, Girja; Menon, Binoy and Rout, Suvendu).
11. Prasad, Manoj Kumar and Abhay Kumar. Video documentation of success story of watershed development project, Gujarat; 34 p.; 2011. (Supervisors: Sharan, Girja; Menon, Binoy and Rout, Suvendu).
12. Nirala, Hariom. Evaluation of mid-day meal (MDM) scheme in western region in Gujarat; 34 p.; 2011. (Supervisors: Hiremath, B. N. and Sinha, Vikash).
13. Uthup, Ryan. Prepare a roadmap for RKK Prerna and Rallis advisory centre development; 120 p.; 2011. (Supervisors: Chaudhary, Sanjay and Reddy, P. V.).
14. Galav, Sudhakar and Jat, Giriraj Prasad. Existing cropping system of small and marginal farmers in watershed project area of Gujarat: scope for improvement; 42 p.; 2011. (Supervisors: Hiremath, B. N. and Menon, Binoy).
15. Jat, Giriraj Prasad and Galav, Sudhakar. Existing cropping system of small and marginal farmers in watershed project area of Gujarat: scope for improvement; 42 p.; 2011. (Supervisors: Hiremath, B. N. and Menon, Binoy).
16. Sabhaya, Sandip. Market research for mango crop and multimedia information system on integrated pest and nutrient management; 26 p.; 2011. (Supervisors: Chaudhary, Sanjay and Jain, Vikash).
17. Vardia, Kotish. Study of various information and services provided by different service providers in the agriculture domain; 45 p.; 2011. (Supervisors: Chaudhary, Sanjay and Reddy, P. V.)

ANNEXURE 3

FACULTY WITH AREAS OF INTEREST

Regular Faculty

Name of the Faculty	Areas of Interest
Amin Ashok PhD (Electrical Engineering) Northwestern University, USA	Graph algorithms, network reliability, program complexity, models of diagnosable systems
Banerjee Asim PhD (Electrical Engineering) IIT Bombay	Pattern recognition, medical imaging, image processing, digital signal processing, speech coding, software engineering, software quality assurance and project management
Bhatt Amit PhD (Electrical Engineering) North Carolina State University, USA	3D IC, computer architecture, low power methodology in digital design
Bhise Minal PhD (Computer Science) BITS Pilani	Semantic web, distributed databases, software system analysis and design
Chatterji Samaresh PhD (Mathematics) Wayne State University, USA	Algebra, discrete mathematics, computer simulation and applications
Chaudhary Sanjay PhD (Computer Science) Gujarat Vidyapith, Ahmedabad	Distributed computing, service oriented architecture and ICT applications in agriculture
Das, Manik Lal PhD (Information Technology) IIT Bombay	Information security, cryptography, system design and analysis
Dasgupta, Sourish PhD (Computer Science) University of Missouri-Kansas City USA	Distributed multi-agent system, semantic web, artificial intelligence
Desai, Binita BFA (Fine Arts) MS University, Baroda Animation National Institute of Design, Ahmedabad	Animation, communication design and multimedia
Devy, Ganesh PhD (English) Shivaji University, Kolhapur	Comparative literature, cultural studies
Divakaran, Srikrishnan PhD (Computer Science) Rutgers University, USA	Design and analysis of algorithms for problems in bioinformatics, machine scheduling and distributed systems
Dubey, Rahul PhD (Electrical Engineering) IIT Roorkee	Design and prototyping of digital systems, factory automation
Dutta, Gautam PhD (Physics) Physical Research Laboratory, Ahmedabad	Quantum computers, signal processing, image processing, particle physics



Ghodgaonkar, Deepak

PhD (Electrical Engineering) | University of Utah, USA

RF and microwave engineering, Microwave measurements, microwave characterization of composite materials, biomedical applications of microwaves, RFID and metamaterials

Ghosh, Anjan

PhD (Electrical Engineering) | Carnegie Mellon University, USA

Optical computing, optical communications and networking, photonics, meta-materials, chaos, sensors, sensor networking, MEMS, instrumentation, e-health, open-source software, engineering education

Ghosh, Ranendu

PhD (Soil Science and Agricultural Chemistry) | Indian Agricultural Research Institute, New Delhi

Satellite remote sensing, GIS, satellite communication applications for rural development, sustainable agriculture system.

Gupta, Manish K.

PhD (Mathematics) | IIT Kanpur

Information processing in biology, bio-molecular (DNA, membrane, cell) computing, coding and information theory, cryptology, quantum computing, computational, structural and systems biology and bioinformatics

Gupta, Sanjeev

PhD (Communication Engineering) | Queen's University, Belfast, UK

Smart antennas, communication and radar systems, RF/microwave applications

Hiremath, B. N.

PhD (Agricultural Economics) | University of Kentucky, USA

Sustainable rural livelihoods, food and livelihood security at household level, participatory approaches, rural development, natural resources and environmental economics, research methodology.

Jani, Preetida V.

PhD (Electrical Engineering) | University of Technology, Sydney, Australia

Wireless and cellular networks, mobile networks, ubiquitous connectivity, data compression algorithms, network security, wireless systems, cognitive radio

Joshi, Manjunath V.

PhD (Electrical Engineering) | IIT Bombay

Computer vision, image processing, super-resolution, restoration, signal processing, digital communication

Majumder, Prasenjit

PhD (Computer Science), Jadavpur University, Kolkata

Information retrieval, natural language processing, digital libraries

Mathuria, Anish

PhD (Computer Science) | University of Wollongong, Australia

Computer security

Mazumdar, Madhumita

PhD (Modern History) | University of Calcutta, Kolkata

Social history of science, technology and medicine in India, cultures of communication and media

Mitra, Suman Kumar

PhD (Computer Science) | Indian Statistical Institute, Kolkata

Image processing, pattern recognition, fractal, Bayesian network, digital image watermarking



Mulherkar, Jaideep PhD (Mathematics) University of California, Davis, USA	Mathematical physics, quantum computation and information
Muthu, Rahul PhD (Computer Science) Homi Bhabha National Institute, Mumbai	Graph theory, algorithms
Mondal, Samrat PhD (Information Technology) IIT Kharagpur	System security, database system, formal verification
Nagchoudhuri, Dipankar PhD (Electrical Engineering) Michigan State University, USA	VLSI design, CMOS circuits and technology, biomedical signal processing chip design
Pal, Dipankar PhD (Circuits and Systems) Jadavpur University, Calcutta	Low power analog circuits and analog ASIC
Pandya, Abhinay M.Tech. (Information Technology) IIT Bombay	Theoretical physics, pattern recognition, machine learning, natural language processing, bioinformatics
Pandya, Vishvajit PhD (Anthropology) University of Chicago, USA	Material culture, design and communication culture, visual anthropology, rituals and history
Parikh, Alka PhD (Agriculture and Allied Economics) Cornell University, USA	Rural development and the related issues like agriculture, poverty, unemployment and wages, rural finance, environment and development, disaster management
Parikh, Chetan D. PhD (Electrical Engineering) University of Florida, Gainesville, USA	Analog and mixed-signal VLSI design
Parikh, Radha PhD (Special Education) University of Missouri, Columbia, USA	Communication, value education, constructivist approach to teaching and learning, technology in education (e-learning)
Patil, Hemant PhD (Signal Processing) IIT Kharagpur	Speaker recognition and wavelet signal processing
Pillutla, Laxminarayana PhD (Electrical Engineering) University of British Columbia, Canada	Statistical signal processing, information theory, game theory, non- linear optimization, wireless sensor networks, cognitive radio, cross layer design of wireless networks
Ranjan, Prabhat PhD (Physics) University of California, Berkeley, USA	Wireless sensor network, robotics and embedded systems, nuclear fusion, Linux operating system
Raut, Manoj Kumar PhD (Mathematics) IIT Madras	Combining decision procedures, theorem proving, knowledge representation and reasoning, logic



Raval, Mehul S. PhD (Electronics and Telecommunications) University of Pune	Digital image processing, digital watermarking
Roy, Anil PhD (Physics) IIT Delhi	Fibre optics and optical communication, quantum optics, nanotechnology, semiconductor devices
Sahasrabudhe, S. C. PhD (Communication/Signal Processing) Leningrad University, USSR	Communications, signal and image processing and microprocessor applications.
Sen, Subhajit PhD (Analog VLSI Design) University of Waterloo, Canada	Analog and RF microelectronic circuit design: signal conditioning and data-acquisition for sensor applications, frequency synthesis, low-power circuits for instrumentation and biomedical applications, energy harvesting techniques, non-linear analysis of electronic circuits.
Sinha, V. P. PhD (Electrical Engineering) University of London, UK	Digital signal and image processing, theory of communication, discrete mathematics and logic, modern Fourier theory
Srivastava, Sanjay PhD (Physics) University of California, Los Angeles, USA	Computer networks, protocol modelling, simulation
Suhrud, Tridip PhD (Political Science) Gujarat University	Life and thought of Mahatma Gandhi, 19th century social and literary thought
Sunitha, V. PhD (Mathematics) IIT Madras	Algorithms, discrete mathematics, graph theory, parallel and distributed computing, theoretical computer science, interconnection networks
Tiwari, Mukesh PhD (Optical Science and Engineering) University of New Mexico, USA	Statistical physics, non linear dynamics, quantum transport, surface science
Vijaykumar, C. PhD (Communication Engineering) REC Tiruchirapalli	Digital signal processing, estimation theory, wireless communications, speech processing
Visvanathan, Shiv PhD (Sociology) University of Delhi	Sociology of science and technology, violence and globalisation, corruption, sociology of disasters, culture and communication, futures
Zaveri, Mazad PhD (Electrical and Computer Engineering) Portland State University, Oregon, USA	Cortex-inspired computational models: artificial and spiking neural networks, associative memories, intelligent signal- processing, Bayesian inference, hierarchical and modular models of the mammalian cortex, neuromorphic hardware, circuits and architectures: digital and mixed-signal vlsi, nano- architectures, hybrid nanotechnology - CMOL, architecture performance/price assessment, hardware design-space exploration



Visiting Faculty

Name of the Faculty

Areas of Interest

Jat, Pokhar Mal

MTech (Mechanical Engineering) | IIT Delhi

Databases, software design and semantic web

Sarkar, Aditi Nath

M.A. (South Asian Languages and Civilizations) University of Chicago, USA

Literature, religion, cultural history, south Asian civilization studies

Sharan, Girja

PhD (Agricultural and Biological Engineering) | Cornell University, USA

Modeling of agricultural and biological systems, technology for arid areas, earth-tube-heat-exchanger, greenhouse, dew harvest condensers, radiation-cooling

Tatu, Aditya

PhD (Image Analysis) | University of Copenhagen, Denmark

Mathematical image processing, shapes, image features

Adjunct Faculty

The following faculty members were associated with the teaching work during the academic year 2010-11.

Name of the Faculty

Areas of Interest

Ayush, Saroj

MBA | Institute of Rural Management, Anand

Organizational theory

Bajaj, Namrata

PhD (English) | G. G. University, Bilaspur

Technical communication

Banerjee, Nandini

Ph. D. (Economics) | R. D. University, Jabalpur

Organisational behaviour, economics, management

Bhardwaj, Ashima

PhD (Biochemistry) | University of Delhi, New Delhi

Biotechnology

Dumra, Vinod S.

BE (Mechanical Engineering) | PG Training (Business Management) | YMCA Institute of Management, New Delhi

Management, business management, marketing

Gopalan, Ravi

Master in Computer Science, | Florida Institute of Technology, USA

Information delivery systems and models, ICT enabled rural services, development using ICT

Singh, Katar

PhD (Agricultural Economics) | University of Illinois at Urbana-Champaign, USA

Technical communication



Krishnamurthi, G. PGDM IIM Bangalore	Project management, management and agribusiness
Laliwala, Zakir PhD (ICT) DA-IICT	Distributed computing, fundamentals and applications Thematic seminar
Parmar, Vikram PhD (Industrial Design) Technical University of Delft, The Netherlands.	
Patel, Narendra Diploma in Visual Communication National Institute of Design, Ahmedabad	Animation
Raje, Nitin PhD (Advanced Building Systems) Carnegie Mellon University, USA	Computer games, computer graphics, image processing, GIS
Rao, U. T. MBA (Finance) Berhampur University	Business finance
Raval, Nikhil MBA (Strategic Management) California State University, USA	Business management, strategy and finance
Surekha Devi PhD (Chemistry) Shivaji University	Nanoscience and technology
Tripathy, Subhanshu PhD (Economics) Jawaharlal Nehru University, New Delhi	Governance and non-farm information systems
Trivedi, Bhushan PhD (Computer Science) Hemchandracharya North Gujarat University	Algorithms and data structures
Trivedi, Jigish MTech (ICT) DA-IICT	Information systems modeling, Strategic management, problem solving techniques



ANNEXURE 4

LISTING OF STAFF MEMBERS

Academic Administration

1. Mr. P. K. Chopra, Executive Registrar
2. Mr. B. Sreekumar, Deputy Registrar (Academic)
3. Mr. J. P. Yagnik, Assistant Registrar (Academic)
4. Mr. Jalpesh Pandya, Academic Assistant
5. Mr. Venugopal P. R., Secretary to Director
6. Mr. Trevor Michael, Secretary to Executive Registrar
7. Mr. Abhilash Kumar Bhaskaran, Faculty Secretary
8. Mr. Satyabir Singh, Faculty Secretary
9. Ms. Deepa Poduval, Faculty Secretary
10. Ms. Anuradha Srivastava, Faculty Secretary
11. Mr. Mukesh Thaker, Faculty Secretary
12. Ms. Rashmil Mishra, Placement and CEP Officer (up to 20th May, 2011)
13. Mr. Mukesh Sharma, Placement and CEP Officer
14. Ms. Geeta S. Nair, Secretary - Placement and CEP

Administration and Estate

1. Mr. Hasendrasinh Jhala, Head - HR and Administration
2. Ms. Geeta Mehta, Accounts Officer
3. Mr. Rajesh V. Patel, Estate Engineer
4. Ms. Niketa P. Raval, Receptionist - Office Assistant
5. Mr. Kiritkumar Pandya, Administrative Assistant
6. Mr. Santosh Pandit, Accounts Assistant
7. Mr. Sudhir Dave, Commercial Assistant
8. Mr. Bhavesh Shah, Stores Assistant
9. Mr. Gyanesh Pandya, HR Assistant
10. Mr. Jitendra Parmar, Hostel Supervisor
11. Mr. Dharamsinh Karmyal, Sports Officer
12. Mr. Shirish Verma, Sports Assistant

Resource Centre

1. Dr. T. S. Kumbar, Librarian
2. Mr. Suresh Balutagi, Senior Professional Assistant
3. Mr. Prasanna Kumar Muduli, Junior Professional Assistant
4. Mr. Saurabh Prajapati, Junior Professional Assistant
5. Mr. A. Rajakumar, Junior Professional Assistant



6. Mr. Manoj Nair, Library Assistant
7. Mr. Manish Goswami, Library Attendant
8. Mr. Vimlesh Patel, Library Trainee (up to 28th February, 2011)
9. Mr. Jignesh Parmar, Library Trainee
10. Mr. Abhijeet Tiwari, Library Trainee
11. Ms. Reema Shukla, Library Trainee (from 1st April, 2011)

Systems and Laboratory

1. Mr. Nimesh B. Patel, System Engineer
2. Mr. Rajendra B. Shah, Laboratory Superintendent
3. Mr. Ramesh Prajapati, Laboratory Assistant
4. Ms. Krupa V. Pandya, Laboratory Assistant
5. Mr. Sanjay Bariya, Laboratory Assistant
6. Ms. Dipali Thaker, Laboratory Assistant
7. Mr. Kalpesh Yagnik, Laboratory Assistant
8. Ms. Devangi Chavda, Laboratory Assistant
9. Mr. Suryakant Goswami, Laboratory Assistant
10. Mr. Krunal G. Patel, Laboratory Assistant
11. Ms. Firoja Sheikh, Laboratory Assistant
12. Mr. Bhargav Patel, Laboratory Assistant
13. Mr. Naresh J. Patel, Laboratory Assistant
14. Mr. Prabhunath Sharma, Model Maker

Project Staff

1. Mr. Yagna Srinath joined on 2nd August, 2010 as Project Assistant on the DST–JST sponsored project.
(Supervisor : Prof. Anish Mathuria)
2. Mr. Khaja Ahmed Shaik joined on 5th August, 2010 as Junior Research Fellow on the Indo-French Centre – sponsored project.
(Supervisor : Prof. Chetan Parikh)
3. Mr. Anil Kumar Mundra joined on 18th August, 2010 as Junior Research Fellow on the DST–JST sponsored project.
(Supervisor : Prof. Anish Mathuria)
4. Mr. Nikunj Gandhi joined on 13th September, 2010 as Research Engineer on the VLSI sponsored project.
(Supervisor : Prof. Subhajit Sen)
5. Mr. Naveen Kumar joined on 26th October, 2010 as Research Associate on the DST–JST sponsored project.
(Supervisor : Prof. Anish Mathuria)



6. Mr. Hiren Shah joined on 10th November, 2010 as Research Engineer on the National Trust sponsored project.
(Supervisor : Prof. Prabhat Ranjan)
7. Mr. Ajay Roshania joined on 15th December, 2010 as Research Engineer on the National Trust sponsored project.
(Supervisor : Prof. Prabhat Ranjan)
8. Mr. Nemichand Mehta joined on 28th December, 2010 as CEO on the CEID sponsored project.
(Supervisor : Prof. Anish Mathuria)
9. Mr. Sandra Jinesh joined on 1st April, 2011 as Research Engineer on the PRL Chandrayan – 2 sponsored project.
(Supervisor : Prof. Prabhat Ranjan)
10. Ms. Khushboo Singhal joined on 11th May, 2011 as Junior Research Fellow on the CLIA sponsored project.
(Supervisor : Prof. Prasenjit Majumder)
11. Mr. Hiren Shah joined on 1st June, 2011 as Research Engineer on the BRFST sponsored project.
(Supervisor : Prof. Prabhat Ranjan)
12. Mr. Sainath Gopi Nambiar joined on 1st June, 2011 as Research Engineer on the BRFST sponsored project.
(Supervisor : Prof. Prabhat Ranjan)
13. Ms. Shraddha Dulera joined on 15th June, 2011 as Senior Research Fellow on the BRNS sponsored project.
(Supervisor : Prof. Mehul Raval)
14. Mr. Vedang Patel joined on 1st July, 2011 as Project Assistant on the VAGT sponsored project.
(Supervisor : Prof. Anil Roy)
15. Mr. Poojan Shah joined on 1st July, 2011 as Project Assistant on the VAGT sponsored project.
(Supervisor : Prof. Anil Roy)
16. Mr. Darsh Shai joined on 1st July, 2011 as Project Assistant on the VAGT sponsored project.
(Supervisor : Prof. Anil Roy)
17. Ms. Shirali Desai joined on 1st July, 2011 as Project Assistant on the VAGT sponsored project.
(Supervisor : Prof. Anil Roy)
18. Mr. Gaurav Arora joined on 1st July, 2011 as Project Assistant on the CLIA sponsored project.
(Supervisor : Prof. Prasenjit Majumder)
19. Ms. Smita Kumari joined on 1st July, 2011 as Project Assistant on the CLIA sponsored project.
(Supervisor : Prof. Prasenjit Majumder)
20. Mr. Swair Shah joined on 1st July, 2011 as Project Assistant on the CLIA sponsored project.
(Supervisor : Prof. Prasenjit Majumder)
21. Mr. Ambuj Varshney joined on 7th July, 2011 as Research Engineer on the PRL Chandrayan – 2 sponsored project.
(Supervisor : Prof. Prabhat Ranjan)



22. Mr. Pavas Kant joined on 15th July, 2011 as Project Assistant on the VAGT sponsored project.
(Supervisor : Prof. Anil Roy)
23. Mr. Mohit Kothari joined on 20th July, 2011 as Project Assistant on the CLIA sponsored project.
(Supervisor : Prof. Prasenjit Majumder)
24. Mr. Shrishail S. Gajbhar joined on 25th July, 2011 as Junior Research Fellow on the IDH-Hampi sponsored project.
(Supervisor : Prof. Manjunath Joshi)
25. Mr. Nilay Khatri joined on 25th July, 2011 as Junior Research Fellow on the IDH-Hampi sponsored project.
(Supervisor : Prof. Manjunath Joshi)
26. Mr. Parth Mehta joined on 25th July, 2011 as Project Assistant on the VAGT sponsored project.
(Supervisor : Prof. Anil Roy)





Annual Report Committee

Prof. Samaresh Chatterji | Prof. Sanjay Chaudhary | Prof. Sanjeev Gupta | Prof. B. N. Hiremath | Dr. T. S. Kumbar | Prof. Anish Mathuria | Prof. Madhumita Mazumdar

